

## APPENDIX A. TECHNICAL NOTES

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## DATA SOURCE

This report is based on information collected through the Survey of Earned Doctorates (SED), conducted annually by the National Academy of Sciences for the NSF and other Federal agencies since 1957. Data are collected directly from the individual doctorate recipients, and include a complete enumeration of the individual's educational history. Information from this survey becomes part of the Doctorate Records File, which comprises over 1,185,000 records for doctorates awarded since 1920 by regionally accredited universities and colleges. Data on doctoral degrees such as the Ph.D. or D. Sc. are collected in these surveys, but not on first-professional degrees such as the J.D. or M.D. Approximately 94 percent of the annual cohort of doctorate recipients responded to the questionnaire, which is distributed through the cooperation of the Graduate Deans. Partial data from public sources, such as graduation commencement programs, were added to the file for those doctorate recipients who had not responded. The data for a given year include all doctorates awarded in the 12-month period ending June 30th of the referenced year.

## POSSIBLE SOURCES OF SURVEY ERROR

The SED is a universe survey of all recipients of research doctorates; therefore it is not subject to sampling error. Data obtained from this survey are subject to nonsampling error, however. Nonsampling errors may result from a variety of factors, including nonresponse to the survey or to a particular item; differences in interpreting questions; respondent errors; and errors made in recording the data. It is difficult to quantify the nonsampling error from all possible sources. The following provide known information concerning the three major sources of nonsampling error for the SED: survey nonresponse, item nonresponse, and errors made in recording the data.

## SURVEY NONRESPONSE

The response rate to the SED is high for a voluntary survey of individuals. The response rate averages 94 percent over the period for which data are presented in this report. For nonrespondents to the survey, information on field of study, doctorate institution, sex, and baccalaureate is obtained from public sources such as commencement programs, and added to the file. Data are not imputed for the other variables in the survey.

An analysis of the sources of nonresponse indicated that survey nonresponse is related to institutions, not to characteristics of the doctoral recipients. Half of the nonresponse in 1995 was accounted for by 3 percent of the institutions in the survey. In general, these institutions employed methods for collecting the survey data that resulted in low response rates or did not have any residency requirements for their doctoral programs.

## ITEM NONRESPONSE

Persons who respond to the survey may choose not to provide the information requested in a particular question or may inadvertently skip an item on the survey form. The public sources already cited (e.g., commencement programs) may provide additional information. The data items reported in the tables in this report are listed in Table A-1 with response rates, showing the

Table A-1. Item response rates: 1995

Item	Response rate
Sex .....	100.0 %
Field of study .....	100.0
Citizenship .....	97.9
Race/ethnicity .....	96.5
Baccalaureate-origin institution*	95.8

\*The response rate for this item is higher than the overall survey response rate because public records, such as commencement programs, are used to obtain this information for nonrespondents.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

extent of information obtainable from any sources for doctorates. For example, the item that concerned baccalaureate-origin institution was available for 95.8 percent of the doctorate recipients in 1995.

## ERRORS MADE IN RECORDING DATA

The SED forms are processed on a continual basis throughout the year. When the forms are received from the Graduate Schools, they are reviewed for completeness to determine whether there is enough information to be considered a response. If so, they are ready for data entry.

The results of an evaluation showed that the error rate is less than one percent. Because the SED is a survey of individuals, an error in recording a data item affects only that item for that individual. The evaluation found that the error rate per item was .002 for the on-line data entry method.

## CARNEGIE CLASSIFICATION OF INSTITUTIONS OF HIGHER EDUCATION

The classification system for institutions used in this study was modified from the 1987 Carnegie Classification of Institutions. Using this classification, five types of institutions were identified, as follows.

*Research Universities* are the 125 leading universities in terms of Federal financial support of research and development; they awarded at least 50 Ph.D.'s each year. Examples include University of California at Berkeley (CA), University of Texas at Austin (TX), Duke University (NC), and University of Chicago (IL).

*Doctoral Universities* are the major doctoral-granting institutions. The established doctoral programs of these institutions have awarded at least 20 Ph.D.'s in

any field, or 10 Ph.D.'s in three or more fields. Examples include Iowa State University (IA), University of South Florida (FL), Howard University (DC), and Rensselaer Polytechnic Institute (NY).

*Master's Colleges and Universities* offered a full range of baccalaureate programs and are committed to graduate education through the master's degree. They award 20 or more master's degrees annually in one or more disciplines. Examples include Glassboro State College (NJ), Old Dominion University (VA), Creighton University (NE), and Aquinas College (MI).

*Baccalaureate Colleges* are predominantly bachelor's-degree granting institutions that award 40 or more of their degrees in liberal arts fields. Institutions such as Oberlin College are included, even though they have master's degree programs. This category also includes a group of colleges that awarded less than half their degrees in liberal arts fields, but were too small (i.e., less than 1,500 students) to be considered "master's." Examples of colleges in this category include Reed (OR), Bryn Mawr (PA), College of Charleston (SC), and Fisk University (TN).

*Specialized Institutions* focused primarily on technical, professional, or corporate programs in a range of areas such as theology, medicine, engineering, business, art, music, law, and teaching. Examples of specialized institutions include New Jersey Institute of Technology, Princeton Theological Seminary (NJ), University of Oklahoma Health Science Center, and Teacher's College of Columbia (NY).

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APPENDIX B.  
DETAILED STATISTICAL TABLES

# LIST OF TABLES

<i>Table</i>	<i>Page</i>
1. U.S. vs. foreign baccalaureate-origin institutions of S&E 1991-95 doctorate recipients, by field of doctorate .....	23
2. Foreign 1991-95 S&E doctorate recipients who earned baccalaureates at U.S. institutions, by visa type and region/country of citizenship .....	24
3. Top 25 baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate .....	25
4. Baccalaureate-origin institutions of 1991-95 science and engineering doctorate recipients, by Carnegie Classification of U.S. institutions and field of doctorate .....	26
5. Top 25 “research universities” that were baccalaureate-origin institutions of 1990-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate .....	27
6. Top 25 “doctoral universities” that were baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates by field of doctorate .....	28
7. Top 25 “master’s colleges and universities” that were baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate .....	29
8. Top 25 “baccalaureate colleges” that were baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorate by field of doctorate .....	30
9. Top 24 “specialized institutions” that were baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S/E doctorate by field of doctorate .....	31
10. Attendance at two year colleges for 1991-95 science and engineering (S&E) doctorate recipients (U.S. citizens only) who attended a 2-year college, by field of doctorate: 1991-95 .....	32
11. Baccalaureate-origin institutions of all 1991-95 science and engineering (S&E) doctorate recipients, by sex and Carnegie Classification of U.S. institutions .....	33
12. Top 25 baccalaureate-origin institutions of 1991-95 female science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate .....	34
13. Baccalaureate-origin institutions of all 1991-95 science and engineering (S&E) doctorate recipients, by race/ethnicity and by Carnegie Classification of U.S. institutions .....	35
14. Top 25 baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients who were Hispanic U.S. citizens, by field of doctorate .....	36

## LIST OF TABLES—CONTINUED

<i>Table</i>	<i>Page</i>
14a. Top 29 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were citizens, ranked according to total S&E doctorates, by field of doctorate .....	37
14b. Top 27 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were Mexican-American U.S. citizens, ranked according to total S&E doctorates, by field of doctorate .....	38
14c. Top 23 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were “other Hispanic” U.S. citizens, ranked according to total S&E doctorates, by field of doctorate .....	39
15. Top 20 baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients who were American Indian U.S. citizens, by field of doctorate .....	40
16. Top 26 baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipient who were black U.S. citizens, by field of doctorate .....	41
17. HBCU institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were black U.S. citizens, ranked according to total S&E doctorates, by field of doctorate .....	42
18. Baccalaureate-origin institutions of 10 or more science and engineering doctorates, ranked according to total, S&E doctorates, by field of doctorate: 1991-95 .....	43
19. Foreign baccalaureate-origin institutions of 10 or more 1994 science and engineering recipients, by field of doctorate .....	79
20. Top 25 foreign baccalaureate-origin institutions of 1994 non-U.S. science and engineering (S&E) doctorates, by field of doctorate .....	87

**Table 1. U.S. versus foreign baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**

Field of doctorate	Total known colleges and universities	U.S. colleges and universities	Foreign colleges and universities	Percentage distribution of baccalaureate degrees from U.S. and foreign institutions		
				Total known colleges and universities	U.S. colleges and universities	Foreign colleges and universities
Science and engineering, total	121,839	76,992	44,847	100.0%	63.2%	36.8%
Sciences, total	94,775	65,054	29,721	100.0	68.6	31.4
Physical sciences, total	18,281	11,060	7,221	100.0	60.5	39.5
Chemistry	10,642	6,705	3,937	100.0	63.0	37.0
Physics and astronomy	7,526	4,282	3,244	100.0	56.9	43.1
Other physical sciences	113	73	40	100.0	64.6	35.4
Earth, atmospheric, & ocean sciences	3,845	2,537	1,308	100.0	66.0	34.0
Mathematics	5,206	2,512	2,694	100.0	48.3	51.7
Computer sciences	4,315	2,203	2,112	100.0	51.1	48.9
Biological & agricultural sciences, total	28,903	19,951	8,952	100.0	69.0	31.0
Biological sciences	23,852	17,301	6,551	100.0	72.5	27.5
Agricultural sciences	5,051	2,650	2,401	100.0	52.5	47.5
Psychology	16,094	15,060	1,034	100.0	93.6	6.4
Social sciences	18,131	11,731	6,400	100.0	64.7	35.3
Engineering, total	27,064	11,938	15,126	100.0	44.1	55.9
Chemical	3,502	1,721	1,781	100.0	49.1	50.9
Civil	3,028	1,018	2,010	100.0	33.6	66.4
Electrical	7,545	3,463	4,082	100.0	45.9	54.1
Mechanical	4,724	1,849	2,875	100.0	39.1	60.9
Other engineering	8,265	3,887	4,378	100.0	47.0	53.0

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 2. Foreign 1991-95 science and engineering (S&E) doctorate recipients who earned baccalaureates at U.S. institutions, by visa type and region/country of citizenship**

Region/country of citizenship	Permanent visas			Temporary visas		
	Total known baccalaureate location	Number who earned baccalaureate in the U.S.	Percent who earned baccalaureate in the U.S.	Total known baccalaureate location	Number who earned baccalaureate in the U.S.	Percent who earned baccalaureate in the U.S.
Total, foreign citizenship	10,264	1,773	17.3%	36,557	2,393	6.5%
North America, total	604	235	38.9	1,933	184	9.5
Canada	353	118	33.4	1,057	69	6.5
Caribbean	103	75	72.8	148	57	38.5
Central America	45	17	37.8	204	39	19.1
Mexico	103	25	24.3	524	19	3.6
South America, total	290	84	29.0	1,528	89	5.8
Argentina	62	17	27.4	209	10	4.8
Brazil	64	15	23.4	604	5	0.8
Chile	29	4	13.8	185	4	2.2
Colombia	43	13	30.2	149	11	7.4
South America, other	92	35	38.0	381	59	15.5
Europe, total	1,083	370	34.2	3,463	294	8.5
Belgium	34	11	32.4	109	7	6.4
England, United Kingdom	259	85	32.8	405	26	6.4
France	62	18	29.0	288	18	6.2
Germany	184	92	50.0	425	49	11.5
Europe, other	544	164	30.1	2,236	194	8.7
East Asia, total	5,752	290	5.0	18,743	655	3.5
Taiwan	806	38	4.7	5,163	56	1.1
China, People's Republic of	4,183	56	1.3	6,624	49	0.7
Hong Kong	97	51	52.6	416	127	30.5
Japan	105	44	41.9	614	72	11.7
Korea	442	43	9.7	5,018	96	1.9
Thailand	47	8	17.0	403	34	8.4
East Asia, other	72	50	69.4	505	221	43.8
West Asia, total	1,693	467	27.6	7,735	838	10.8
India	719	55	7.6	3,977	85	2.1
Iran	407	276	67.8	540	290	53.7
Iraq	26	5	19.2	81	6	7.4
Israel	112	6	5.4	326	19	5.8
Lebanon	49	24	49.0	242	85	0.4
Saudi Arabia	24	6	25.0	305	56	18.4
Turkey	78	16	20.5	569	16	2.8
West Asia, other	278	79	28.4	1,695	281	16.6
Pacific/Australasia, total	174	49	28.2	925	49	5.3
Australia	51	12	23.5	186	7	3.8
Indonesia	48	24	50.0	331	35	10.6
New Zealand	18	3	16.7	83	0	0.0
Philippines	53	6	11.3	318	7	2.2
Pacific/Australasia, other	4	4	100.0	7	0	0.0
Africa, total	496	220	44.4	1,885	248	13.2
Egypt	53	0	0.0	406	11	2.7
Nigeria	160	122	76.2	145	46	31.7
Africa, other	283	98	34.6	1,334	191	14.3
Country unknown	172	58	33.7	345	36	10.4

NOTE: Regions include other countries not specified.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 3. Top 25 baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of California-Berkeley	1,590	1,263	287	62	54	374	23	178	285	327
University of Illinois-Urbana-Champaign	1,129	795	173	16	32	272	71	134	97	334
Cornell University (NY)	1,090	899	179	20	31	346	61	152	110	191
University of Michigan-Ann Arbor	1,060	825	153	19	38	222	15	222	156	235
Massachusetts Institute of Technology	1,000	633	266	42	96	156	3	18	52	367
University of Wisconsin-Madison	995	799	148	24	28	257	64	155	123	196
Pennsylvania State University	865	635	130	13	13	241	52	99	87	230
University of California-Los Angeles	781	688	126	27	20	165	3	235	112	93
Harvard University (MA)	752	721	139	50	52	211	4	74	191	31
University of Minnesota-Minneapolis	712	563	107	22	27	150	71	93	93	149
University of Texas-Austin	681	514	102	18	20	116	6	139	113	167
University of California-Davis	663	577	108	16	7	271	47	58	70	86
Ohio State University-Columbus	635	493	78	17	18	141	35	104	100	142
Michigan State University-East Lansing	630	547	76	16	19	174	58	108	96	83
Purdue University-West Lafayette (IN)	621	372	94	11	20	116	43	48	40	249
Rutgers University-New Brunswick (NJ)	620	522	103	20	10	189	32	105	63	98
University of Maryland-College Park	595	479	68	19	20	140	18	117	97	116
Texas A&M University-College Station	569	398	74	15	9	145	63	56	36	171
University of Washington	560	439	87	16	11	126	24	88	87	121
Princeton University (NJ)	544	449	119	22	30	140	0	36	102	95
University of Pennsylvania	535	448	56	20	23	121	1	114	113	87
University of California-San Diego	535	451	95	28	8	181	1	84	54	84
Stanford University (CA)	519	426	83	18	22	131	5	72	95	93
Iowa State University	515	359	52	18	12	119	79	39	40	156
Virginia Polytechnic Institute & State University	514	292	68	12	13	95	38	37	29	222
Total, top 25	18,710	14,587	2,971	561	633	4,599	817	2,565	2,441	4,123
Total, all U.S. institutions	76,992	65,054	13,597	2,512	2,203	17,301	2,650	15,060	11,731	11,938
Top 25 as a percent of all institutions	24.3%	22.4%	21.9%	22.3%	28.7%	26.6%	30.8%	17.0%	20.8%	34.5%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 4. Baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, by Carnegie Classification of U.S. institutions and field of doctorate**

Field of doctorate	Total known Carnegie	Research universities	Doctoral universities	Master's colleges and universities	Baccalaureate colleges	Specialized institutions
Science and engineering, total	76,599	42,757	8,626	12,589	11,556	1,071
Engineering, total	11,900	8,786	1,390	911	489	324
Chemical	1,714	1,355	200	80	51	28
Civil	1,015	715	135	85	51	29
Electrical	3,450	2,599	380	259	124	88
Mechanical	1,845	1,377	227	145	40	56
Other engineering	3,876	2,740	448	342	223	123
Sciences, total.	64,699	33,971	7,236	11,678	11,067	747
Physical sciences, total	11,015	5,373	1,280	2,082	2,089	191
Chemistry	6,676	2,634	849	1,564	1,532	97
Physics and astronomy	4,267	2,692	425	511	549	90
Other physical sciences	72	47	6	7	8	4
Earth, atmospheric, & ocean sciences	2,526	1,433	267	357	437	32
Mathematics	2,496	1,344	276	387	432	57
Computer sciences	2,190	1,303	266	328	231	62
Biological & agricultural sciences, total	19,865	11,558	1,893	3,184	3,092	138
Biological sciences	17,222	9,777	1,674	2,763	2,875	133
Agricultural sciences	2,643	1,781	219	421	217	5
Psychology	14,953	6,925	1,956	3,306	2,647	119
Social sciences	11,654	6,035	1,298	2,034	2,139	148
Percent distribution of S&E doctorates by Carnegie Classification of institution						
Field of doctorate	Total known Carnegie	Research universities	Doctoral universities	Master's colleges and universities	Baccalaureate colleges	Specialized institutions
Science and engineering, total	100.0%	55.8%	11.3%	16.4%	15.1%	1.4%
Engineering, total	100	73.8	11.7	7.7	4.1	2.7
Chemical	100	79.1	11.7	4.7	3	1.6
Civil	100	70.4	13.3	8.4	5	2.9
Electrical	100	75.3	11	7.5	3.6	2.6
Mechanical	100	74.6	12.3	7.9	2.2	3
Other engineering	100	70.7	11.6	8.8	5.8	3.2
Sciences, total.	100	52.5	11.2	18	17.1	1.2
Physical sciences, total	100	48.8	11.6	18.9	19	1.7
Chemistry	100	39.5	12.7	23.4	22.9	1.5
Physics and astronomy	100	63.1	10	12	12.9	2.1
Other physical sciences	100	65.3	8.3	9.7	11.1	5.6
Earth, atmospheric, & ocean sciences	100	56.7	10.6	14.1	17.3	1.3
Mathematics	100	53.8	11.1	15.5	17.3	2.3
Computer sciences	100	59.5	12.1	15	10.5	2.8
Biological & agricultural sciences, total	100	58.2	9.5	16	15.6	0.7
Biological sciences	100	56.8	9.7	16	16.7	0.8
Agricultural sciences	100	67.4	8.3	15.9	8.2	0.2
Psychology	100	46.3	13.1	22.1	17.7	0.8
Social sciences	100	51.8	11.1	17.5	18.4	1.3

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 5. Top 25 "research universities" that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of California-Berkeley.	1,590	1,263	287	62	54	374	23	178	285	327
University of Illinois-Urbana-Champaign.	1,129	795	173	16	32	272	71	134	97	334
Cornell University (NY).	1,090	899	179	20	31	346	61	152	110	191
University of Michigan-Ann Arbor	1,060	825	153	19	38	222	15	222	156	235
Massachusetts Institute of Technology.	1,000	633	266	42	96	156	3	18	52	367
University of Wisconsin-Madison.	995	799	148	24	28	257	64	155	123	196
Pennsylvania State University.	865	635	130	13	13	241	52	99	87	230
University of California-Los Angeles	781	688	126	27	20	165	3	235	112	93
Harvard University (MA).	752	721	139	50	52	211	4	74	191	31
University of Minnesota-Minneapolis.	712	563	107	22	27	150	71	93	93	149
University of Texas-Austin	681	514	102	18	20	116	6	139	113	167
University of California-Davis	663	577	108	16	7	271	47	58	70	86
Ohio State University-Columbus	635	493	78	17	18	141	35	104	100	142
Michigan State University-East Lansing	630	547	76	16	19	174	58	108	96	83
Purdue University-West Lafayette (IN).	621	372	94	11	20	116	43	48	40	249
Rutgers University-New Brunswick (NJ).	620	522	103	20	10	189	32	105	63	98
University of Maryland-College Park.	595	479	68	19	20	140	18	117	97	116
Texas A&M University-College Station	569	398	74	15	9	145	63	56	36	171
University of Washington	560	439	87	16	11	126	24	88	87	121
Princeton University (NJ).	544	449	119	22	30	140	0	36	102	95
University of Pennsylvania	535	448	56	20	23	121	1	114	113	87
University of California-San Diego	535	451	95	28	8	181	1	84	54	84
Stanford University (CA)	519	426	83	18	22	131	5	72	95	93
Iowa State University.	515	359	52	18	12	119	79	39	40	156
Virginia Polytechnic Institute & State University	514	292	68	12	13	95	38	37	29	222
Total, top 25.	18,710	14,587	2,971	561	633	4,599	817	2,565	2,441	4,123
Total, all "research universities"	42,757	33,971	6,806	1,344	1,303	9,777	1,781	6,925	6,035	8,786
Top 25 as a percent of all "research universities"	43.8%	42.9%	43.7%	41.7%	48.6%	47.0%	45.9%	37.0%	40.4%	46.9%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates. "Research universities" offer a full range of baccalaureate programs, are committed to graduate education through the doctorate, and give high priority to research. They award 50 or more doctoral degrees each year. In addition, they annually receive \$15.5 million or more in federal support.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 6. Top 25 "doctoral universities" that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
State University of New York-Binghamton	268	255	40	10	7	60	2	95	41	13
University of Puerto Rico-Rio Piedras	243	230	61	2	4	47	7	56	53	13
College of William and Mary (VA)	240	229	70	4	10	66	5	26	48	11
Dartmouth College (NH)	233	211	68	7	13	42	4	33	44	22
San Diego State University (CA)	220	207	31	4	1	28	3	102	38	13
Miami University (OH)	213	206	39	5	4	56	6	53	43	7
University of New Hampshire-Durham.	184	150	24	3	2	62	10	23	26	34
Michigan Technological University	166	75	32	3	7	20	9	0	4	91
University of Maine-Orono	155	130	19	5	0	48	22	24	12	25
University of Missouri-Rolla.	151	49	27	5	3	7	1	4	2	102
University of Akron (OH)	147	106	33	2	2	16	2	35	16	41
Illinois State University-Normal.	147	146	37	2	4	31	6	40	26	1
University of Alabama-Tuscaloosa.	134	100	23	3	7	16	3	23	25	34
Drexel University (PA)	132	60	20	6	5	15	2	3	9	72
Baylor University (TX)	132	130	14	8	5	32	3	41	27	2
Boston College (MA)	131	125	20	7	0	28	0	50	20	6
Marquette University (WI)	127	103	15	3	1	36	2	31	15	24
University of Texas-Arlington	127	84	24	5	4	19	2	18	12	43
University of Montana-Missoula.	127	123	24	3	3	28	16	25	24	4
Northern Illinois University.	126	124	24	9	3	33	3	30	22	2
Wake Forest University (NC)	126	125	34	2	3	32	0	35	19	1
Montana State University-Bozeman.	120	87	21	8	1	22	12	9	14	33
Bowling Green State University (OH)	117	112	21	3	5	41	0	23	19	5
Clark University (MA)	114	110	9	2	1	26	2	46	24	4
University of Toledo (OH)	111	86	17	1	3	18	1	30	16	25
Total, top 25	3,991	3,363	747	112	98	829	123	855	599	628
Total, all "doctoral institutions"	8,626	7,236	1,547	276	266	1,674	219	1,956	1,298	1,390
Top 25 as a percent of all "doctoral institutions"	46.3%	46.5%	48.3%	40.6%	36.8%	49.5%	56.2%	43.7%	46.1%	45.2%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates. "Doctoral universities" offer a full range of baccalaureate programs and are committed to graduate education through the doctorate. They award annually at least 10 doctoral degrees in three or more disciplines, or 20 or more doctoral degrees in one or more disciplines.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 7. Top 25 "master's colleges and universities" that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
California State University-Northridge	182	165	14	6	2	21	0	91	31	17
California State University-Long Beach	181	167	19	4	5	31	2	82	24	14
San Francisco State University (CA)	170	161	26	4	0	39	2	59	31	9
California State University-Fullerton	152	149	14	6	5	24	3	82	15	3
City College, City University of New York	146	111	9	4	9	23	0	37	29	35
Queens College, City University of New York	134	131	15	7	7	14	0	58	30	3
San Jose State University (CA)	133	116	25	2	1	21	0	41	26	17
California Polytechnic State University-San Luis Obispo	131	105	35	3	1	26	19	6	15	26
University of Dayton (OH)	128	92	22	7	3	27	3	22	8	36
California State University-Fresno	125	113	29	2	2	18	8	39	15	12
Hunter College-City University of New York	120	120	13	5	1	25	1	56	19	0
Humboldt State University (CA)	120	118	29	7	4	37	22	10	9	2
Calvin College (MI)	118	105	28	7	9	19	3	22	17	13
Brooklyn College, City University of New York	110	110	13	3	7	21	1	44	21	0
California State University-Sacramento	103	95	23	5	2	12	1	24	28	8
Western Washington University	101	95	22	3	2	19	1	25	23	6
California State Polytechnic University-Pomona	92	70	11	2	2	20	8	15	12	22
California State University-Los Angeles	92	89	13	1	1	19	1	32	22	3
California State University-Chico	88	78	11	4	0	22	7	12	22	10
Rochester Institute of Technology (NY)	86	61	29	1	0	25	1	2	3	25
University of Texas-El Paso	86	72	16	0	6	18	0	17	15	14
Oakland University (MI)	83	75	15	0	3	16	0	31	10	8
Trinity University (TX)	83	76	15	2	1	17	1	27	13	7
University of Wisconsin-Stevens Point	80	76	9	1	0	33	14	13	6	4
South Dakota State University	80	66	7	2	0	23	22	7	5	14
Total, top 25	2,924	2,616	462	88	73	570	120	854	449	308
Total, all "master's institutions"	12,589	11,678	2,439	387	328	2,763	421	3,306	2,034	911
Top 25 as a percent of all "master's institutions"	23.2%	22.4%	18.9%	22.7%	22.3%	20.6%	28.5%	25.8%	22.1%	33.8%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates. "Master's colleges and universities" offer a full range of baccalaureate programs and are committed to graduate education through the master's degree. They award 20 or more master's degrees annually in one or more disciplines.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 8. Top 25 "baccalaureate colleges" that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
Oberlin College (OH)	266	259	58	11	5	57	2	55	71	7
Carleton College (MN)	260	253	108	6	6	66	3	22	42	7
Swarthmore College (PA)	248	227	40	4	6	70	1	38	68	21
Wesleyan University (CT)	189	181	31	5	6	41	0	56	42	8
Reed College (OR)	182	174	42	24	2	63	3	9	31	8
St. Olaf College (MN)	171	163	40	29	1	46	1	24	22	8
Williams College (MA)	155	149	38	7	3	34	3	29	35	6
Smith College (MA)*	153	153	22	7	2	45	2	39	36	0
Bucknell University (PA)	147	122	34	10	3	37	1	16	21	25
Wellesley College (MA)*	137	134	16	4	2	32	1	40	39	3
Pomona College (CA)	135	131	19	9	5	39	2	35	22	4
Barnard College-Columbia University (NY)	133	132	8	1	2	18	1	58	44	1
Colgate University (NY)	132	128	43	4	2	28	2	27	22	4
Grinnell College (IA)	128	120	35	8	5	32	1	20	19	8
Vassar College (NY)	125	123	12	4	6	22	1	49	29	2
Mount Holyoke College (MA)*	124	121	16	5	1	50	0	27	22	3
Bryn Mawr College (PA)*	121	116	18	8	1	22	3	19	45	5
Amherst College (MA)	118	116	19	6	1	35	3	23	29	2
Kalamazoo College (MI)	115	108	27	2	5	31	2	25	16	7
Haverford College (PA)	114	111	31	6	2	32	0	13	27	3
Wheaton College (IL)	110	105	17	3	4	14	0	45	22	5
Hope College (MI)	110	107	39	2	1	27	1	25	12	3
Union College (NY)	107	89	18	5	7	23	0	25	11	18
Occidental College (CA)	106	99	28	1	1	22	2	26	19	7
Franklin and Marshall College (PA)	100	96	35	2	0	18	0	24	17	4
Total, top 25	3,686	3,517	794	173	79	904	35	769	763	169
Total, all "baccalaureate colleges"	11,556	11,067	2,526	432	231	2,875	217	2,647	2,139	489
Top 25 as a percent of all "baccalaureate colleges"	31.9%	31.8%	31.4%	40.0%	34.2%	31.4%	16.1%	29.1%	35.7%	34.6%

\* These are currently listed as women's colleges.

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates. "Baccalaureate colleges" are primarily undergraduate colleges with major emphasis on baccalaureate degree programs.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 9. Top 24 "specialized institutions" that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
Harvey Mudd College (CA)	124	101	66	16	4	11	1	0	3	23
United States Military Academy (NY)	122	75	9	10	18	2	0	5	31	47
United States Air Force Academy (CO)	111	59	14	6	11	1	2	7	18	52
United States Naval Academy (MD)	64	35	12	3	5	1	0	2	12	29
Rose-Hulman Institute of Technology (IN)	55	27	14	6	4	1	1	0	1	28
New Mexico Institute of Mining & Technology	52	39	28	3	2	6	0	0	0	13
Cooper Union (NY)	45	11	3	4	3	0	0	0	1	34
Philadelphia College of Pharmacy & Science	44	44	13	0	0	31	0	0	0	0
South Dakota School of Mines & Technology	39	18	14	2	2	0	0	0	0	21
GMI Engineering & Management Institute (MI)	31	6	3	0	1	0	0	1	1	25
Rider University (NJ)	24	23	6	0	0	11	0	3	3	1
University of Maryland School of Medicine	17	17	1	0	0	10	0	4	2	0
United States Coast Guard Academy (CT)	16	11	2	2	1	1	0	1	4	5
Milwaukee School of Engineering (WI)	12	0	0	0	0	0	0	0	0	12
John Jay College of Criminal Justice-CUNY	11	11	0	0	0	0	0	3	8	0
Webb Institute of Naval Architecture (NY)	9	4	3	0	0	0	0	0	1	5
University of Texas-Health Sciences Center -San Antonio	9	9	1	0	1	4	0	3	0	0
Albany College of Pharmacy (NY)	8	8	5	0	0	2	0	1	0	0
Pratt Institute (NY)	7	3	0	0	2	1	0	0	0	4
State University of New York-Maritime College	7	4	2	0	0	0	0	0	2	3
Massachusetts College of Pharmacy & Health Science	6	6	1	0	0	4	0	1	0	0
U.S. Merchant Marine Academy (NY)	6	3	2	0	0	1	0	0	0	3
University of Nebraska Medical Center	6	6	0	0	1	3	0	1	1	0
Medical College of Georgia	6	6	0	0	0	1	0	4	1	0
Total, top 24	831	526	199	52	55	91	4	36	89	305
Total, all "specialized institutions"	1,071	747	223	57	62	133	5	119	148	324
Top 24 as a percent of all "specialized institutions"	77.6%	70.4%	89.2%	91.2%	88.7%	68.4%	80.0%	30.3%	60.1%	94.1%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates. "Specialized institutions" offer degrees ranging from the bachelor's to the doctorate. At least 50 percent of the degrees awarded by these institutions are in a single discipline.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 10. Attendance at two-year colleges for 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**

Baccalaureate-origin institution	Total number with known two-year college status	Attended two-year college	Percent who attended two-year college
Science and engineering, total	71,367	7,369	10.3%
Sciences, total	60,765	6,500	10.7
Physical sciences, total	10,318	823	8.0
Chemistry	6,248	563	9.0
Physics and astronomy	4,003	253	6.3
Other physical sciences	67	7	10.4
Earth, atmospheric, & ocean sciences	2,469	259	10.5
Mathematics	2,370	204	8.6
Computer sciences	2,036	151	7.4
Biological & agricultural sciences, total	18,870	1,993	10.6
Biological sciences	16,442	1,599	9.7
Agricultural sciences	2,428	394	16.2
Psychology	13,992	1,885	13.5
Social sciences	10,710	1,185	11.1
Engineering, total	10,602	869	8.2
Chemical	1,540	100	6.5
Civil	884	97	11.0
Electrical	2,973	270	9.1
Mechanical	1,656	144	8.7
Other engineering	3,549	258	7.3
American Indian	283	46	16.3%
Asian	3,448	255	7.4
Black	1,774	161	9.1
Hispanic*	2,116	302	14.3
White	63,034	6,554	10.4

\* Hispanic ethnicity took precedence over race in the classification.

SOURCE:National Science Foundation/SRS, Survey of Earned Doctorates

**Table 11. Baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, by sex of doctorate recipients and Carnegie Classification of U.S. institutions**

Carnegie Classification of U.S. baccalaureate institution <sup>1</sup>	Number									
	Science and engineering			Sciences			Engineering			
	Total	Men	Women	Total	Men	Women	Total	Men	Women	
Total known Carnegie Classification	76,599	48,928	27,671	64,699	38,625	26,074	11,900	10,303	1,597	
Research universities	42,757	28,632	14,125	33,971	21,052	12,919	8,786	7,580	1,206	
Doctoral universities	8,626	5,477	3,149	7,236	4,244	2,992	1,390	1,233	157	
Master's colleges and universities	12,589	7,595	4,994	11,678	6,795	4,883	911	800	111	
Baccalaureate colleges	11,556	6,362	5,194	11,067	5,978	5,089	489	384	105	
Specialized institutions	1,071	862	209	747	556	191	324	306	18	

  

Carnegie Classification of U.S. baccalaureate institution <sup>1</sup>	Percent									
	Science and engineering			Sciences			Engineering			
	Total	Men	Women	Total	Men	Women	Total	Men	Women	
Total known Carnegie Classification	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Research universities	55.8	58.5	51	52.5	54.5	49.5	73.8	73.6	75.5	
Doctoral universities	11.3	11.2	11.4	11.2	11	11.5	11.7	12	9.8	
Master's colleges and universities	16.4	15.5	18	18	17.6	18.7	7.7	7.8	7	
Baccalaureate colleges	15.1	13	18.8	17.1	15.5	19.5	4.1	3.7	6.6	
Specialized institutions	1.4	1.8	0.8	1.2	1.4	0.7	2.7	3	1.1	

<sup>1</sup> Excludes foreign institutions and U.S. institutions that closed or for which classifications could not be determined.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 12. Top 25 institutions that were baccalaureate origins of 1991-95 female science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of California-Berkeley	509	458	54	11	6	142	9	119	117	51
Cornell University (NY)	403	368	47	2	6	134	26	104	49	35
University of Michigan-Ann Arbor	400	355	25	6	2	91	2	147	82	45
University of Illinois-Urbana-Champaign	349	307	34	5	5	115	15	82	51	42
University of California-Los Angeles	334	321	28	2	4	66	1	168	52	13
University of Wisconsin-Madison	329	311	25	5	4	90	18	105	64	18
Pennsylvania State University	266	232	16	4	2	99	17	54	40	34
University of California-Davis	241	229	21	0	2	116	18	41	31	12
Rutgers University (NJ)	234	219	29	5	3	80	10	65	27	15
Massachusetts Institute of Technology	231	151	47	5	14	64	0	7	14	80
University of Maryland-College Park	230	216	17	3	4	66	9	75	42	14
Ohio State University-Columbus	226	212	19	2	3	60	7	68	53	14
Michigan State University-East Lansing	218	205	15	0	3	68	10	69	40	13
Brown University (RI)	210	199	17	3	3	47	0	88	41	11
University of Minnesota-Minneapolis	210	198	19	0	3	54	19	55	48	12
University of Pennsylvania	206	194	13	2	3	51	1	74	50	12
Harvard University (MA)	203	195	29	9	8	54	3	34	58	8
University of Texas-Austin	201	187	14	3	1	42	1	83	43	14
University of California-San Diego	197	183	14	6	0	73	0	56	34	14
Stanford University (CA)	194	172	19	3	2	49	1	52	46	22
Yale University (CT)	184	176	19	5	3	51	1	41	56	8
University of Colorado-Boulder	180	164	19	6	2	46	1	53	37	16
Duke University (NC)	173	159	18	1	4	51	1	61	23	14
Indiana University-Bloomington	169	167	16	1	1	42	3	60	44	2
Princeton University (NJ)	166	142	22	5	4	62	0	18	31	24
Total, top 25	6,263	5,720	596	94	92	1,813	173	1,779	1,173	543
Total, all U.S. institutions.	27,814	26,213	2,993	576	428	7,142	649	9,351	5,074	1,601
Top 25 as a percent of all institutions	22.5%	21.8%	19.9%	16.3%	21.5%	25.4%	26.7%	19.0%	23.1%	33.9%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

NOTE: Rankings are based on the number of persons who responded to the Survey of Earned Doctorates.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 13. Baccalaureate-origin institutions of 1991-95 science and engineering (S&E) doctorate recipients, by race/ethnicity of U.S. citizen doctorate recipients and Carnegie Classification of U.S. institutions**

Baccalaureate-origin institution	Race/ethnicity of S&E doctorate recipients					Percent distribution				
	American Indian	Asian	Black	Hispanic *	White	Race/ethnicity of S&E doctorate recipients				
						American Indian	Asian	Black	Hispanic *	White
Total known Carnegie Classification	298	2,755	1,842	2,074	63,999	100.0%	100.0%	100.0%	100.0%	100.0%
Research universities	147	2,123	766	1,018	35,361	49.3	77.1	41.6	49.1	55.3
Doctoral universities	35	147	192	421	7,162	11.7	5.3	10.4	20.3	11.2
Master's colleges and universities	74	242	498	448	10,394	24.8	8.8	27	21.6	16.2
Baccalaureate colleges	40	200	359	163	10,159	13.4	7.3	19.5	7.9	15.9
Specialized institutions	2	43	27	24	923	0.7	1.6	1.5	1.2	1.4
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Baccalaureate-origin institution	Race/ethnicity of S&E doctorate recipients					Percent distribution				
	American Indian	Asian	Black	Hispanic *	White	Race/ethnicity of science doctorate recipients				
						American Indian	Asian	Black	Hispanic *	White
Total known Carnegie Classification	264	2,006	1,638	1,829	55,047	100.0%	100.0%	100.0%	100.0%	100.0%
Research universities	123	1,473	630	849	28,779	46.6	73.4	38.5	46.4	52.3
Doctoral universities	31	106	179	387	6,113	11.7	5.3	10.9	21.2	11.1
Master's colleges and universities	71	213	464	415	9,750	26.9	10.6	28.3	22.7	17.7
Baccalaureate colleges	37	190	346	159	9,752	14	9.5	21.1	8.7	17.7
Specialized institutions	2	24	19	19	653	0.8	1.2	1.2	1	1.2
<hr/>										
Baccalaureate-origin institution	Race/ethnicity of S&E doctorate recipients					Percent distribution				
	American Indian	Asian	Black	Hispanic *	White	Race/ethnicity of engineering doctorate recipients				
						American Indian	Asian	Black	Hispanic *	White
Total known Carnegie Classification	34	749	204	245	8,952	100.0%	100.0%	100.0%	100.0%	100.0%
Research universities	24	650	136	169	6,582	70.6	86.8	66.7	69	73.5
Doctoral universities	4	41	13	34	1,049	11.8	5.5	6.4	13.9	11.7
Master's colleges and universities	3	29	34	33	644	8.8	3.9	16.7	13.5	7.2
Baccalaureate colleges	3	10	13	4	407	8.8	1.3	6.4	1.6	4.5
Specialized institutions	0	19	8	5	270	0	2.5	3.9	2	3

\* Hispanic ethnicity took precedence over race in the classification.

SOURCE:National Science Foundation/SRS, Survey of Earned Doctorates

**Table 14. Top 25 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were Hispanic U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of Puerto Rico-Rio Piedras*	233	220	58	2	3	44	7	53	53	13
University of Puerto Rico-Mayaguez*	69	57	13	0	1	21	8	9	5	12
University of California-Berkeley	64	52	9	2	1	20	0	7	13	12
University of California-Los Angeles	42	38	5	0	1	9	0	19	4	4
University of Texas-Austin	39	32	7	0	0	8	0	9	8	7
University of Miami (FL)	37	30	6	1	0	4	0	15	4	7
Cornell University (NY)	36	28	5	0	0	11	2	6	4	8
University of New Mexico-Albuquerque*	30	27	2	0	0	9	0	12	4	3
University of California-Irvine	29	29	4	1	0	6	0	15	3	0
Massachusetts Institute of Technology	25	16	5	0	1	5	0	0	5	9
Harvard University (MA)	23	21	5	2	1	8	0	3	2	2
University of California-Santa Barbara	23	21	3	0	0	6	0	6	6	2
University of Texas-El Paso*	22	17	4	0	1	6	0	3	3	5
University of California-San Diego	22	22	8	0	0	9	0	3	2	0
Florida International University*	21	21	4	1	1	1	1	12	1	0
Texas A&M University-College Station	20	17	3	1	1	7	1	4	0	3
Stanford University (CA)	20	17	2	1	0	6	0	4	4	3
Rutgers University-New Brunswick (NJ)	19	16	2	0	1	5	1	3	4	3
University of Maryland-College Park	19	14	0	0	0	4	0	6	4	5
University of California-Davis	19	14	2	1	0	9	0	0	2	5
Inter American University of Puerto Rico-San German*	19	19	5	0	0	2	0	10	2	0
Pontifical Catholic University of Puerto Rico*	18	18	3	0	0	7	0	7	1	0
New York University	17	17	2	0	1	1	0	11	2	0
Princeton University (NJ)	17	15	1	1	0	8	0	1	4	2
University of Florida	17	14	1	0	0	1	2	6	4	3
Total, top 25	900	792	159	13	13	217	22	224	144	108
Total, all U.S. institutions.	2,090	1,844	338	44	31	450	47	586	348	246
Top 25 as a percent of all institutions	43.1%	43.0%	47.0%	29.5%	41.9%	48.2%	46.8%	38.2%	41.4%	43.9%

\* Hispanic-serving institutions (with 25 percent or more Hispanic enrollment, January 1996).

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 14a. Top 29 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were Puerto Rican U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of Puerto Rico-Rio Piedras	216	203	54	2	3	39	7	48	50	13
University of Puerto Rico-Mayaguez	65	53	12	0	1	18	8	9	5	12
International American University of Puerto Rico-San German	16	16	4	0	0	2	0	8	2	0
Pontifical Catholic University Puerto Rico	16	16	2	0	0	7	0	6	1	0
Massachusetts Institute of Technology	11	7	2	0	0	3	0	0	2	4
Cornell University (NY)	10	8	0	0	0	2	2	3	1	2
Princeton University (NJ)	9	9	0	1	0	6	0	1	1	0
University of Puerto Rico-Cayey University College	9	9	3	0	0	4	0	2	0	0
Harvard University (MA)	6	6	4	0	0	2	0	0	0	0
New York University	5	5	0	0	0	0	0	4	1	0
Inter American University of Puerto Rico-Metro	5	5	1	0	0	2	0	1	1	0
Michigan State University-East Lansing	4	4	0	0	0	4	0	0	0	0
Syracuse University (NY)	4	3	0	0	0	2	0	1	0	1
The University of Sacred Heart (PR)	4	4	1	0	0	1	0	2	0	0
University of Michigan-Ann Arbor	3	3	0	0	0	1	0	0	2	0
City University of New York-City College	3	2	0	0	0	0	0	2	0	1
University of Chicago (IL)	3	3	0	1	0	0	0	0	2	0
Purdue University (IN)	3	3	2	0	0	0	0	0	0	0
Yale University (CT)	3	2	0	0	0	1	0	1	0	1
University of Pennsylvania	3	2	0	0	0	0	0	1	1	1
Boston University (MA)	3	3	1	0	0	1	0	1	0	0
University of Massachusetts-Amherst	3	3	0	0	0	1	0	2	0	0
Texas A&M University-College Station	3	2	0	0	0	1	0	1	0	1
Fordham University (NY)	3	3	0	0	0	0	0	3	0	0
State University of New York-Binghamton	3	3	0	0	0	2	0	0	1	0
Clark University (MA)	3	3	0	0	0	1	0	1	1	0
City University of New York-Lehman College	3	3	0	0	0	1	0	2	0	0
George Mason University (VA)	3	3	1	0	1	0	0	0	1	0
University of Puerto Rico-Humacao College	3	3	3	0	0	0	0	0	0	0
Total, top 29	425	389	90	4	5	102	17	99	72	36
Total, all U.S. institutions.	580	525	106	5	9	134	21	151	99	55
Top 29 as a percent of all institutions	73.3%	74.1%	84.9%	80.0%	55.6%	76.1%	81.0%	65.6%	72.7%	65.5%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 14b. Top 27 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were Mexican-American U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of Texas-Austin	26	20	3	0	0	5	0	7	5	6
University of California-Los Angeles	22	19	4	0	1	2	0	12	0	3
University of California-Berkeley	20	14	2	1	0	5	0	2	4	6
University of New Mexico	18	16	1	0	0	4	0	9	2	2
University of California-Irvine	18	18	3	0	0	2	0	10	3	0
University of California-Santa Barbara	17	16	3	0	0	6	0	4	3	1
University of Texas-El Paso	16	13	2	0	1	5	0	2	3	3
Stanford University (CA)	13	12	1	0	0	4	0	4	3	1
Texas A&M University-College Station	13	13	3	1	1	6	1	1	0	0
University of California-San Diego	13	13	4	0	0	6	0	1	2	0
University of California-Davis	12	9	2	0	0	6	0	0	1	3
San Diego State University (CA)	11	11	0	0	0	2	0	8	1	0
California State University-Los Angeles	11	11	1	0	0	2	0	3	5	0
University of California-Riverside	10	10	2	0	0	4	0	2	2	0
New Mexico State University	9	7	0	0	0	3	1	1	2	2
California State University-Fullerton	9	9	0	0	0	0	0	8	1	0
Pan-American University of Texas-Edinburg	9	9	1	0	0	0	1	6	1	0
California State University-Long Beach	8	8	0	0	0	1	0	5	2	0
University of Arizona	7	4	0	1	0	0	1	1	1	3
California Institute of Technology	6	4	2	2	0	0	0	0	0	2
Arizona State University-Tempe	6	6	0	1	0	1	1	2	1	0
University of Houston (TX)	6	6	0	2	0	0	0	3	1	0
California State University-Fresno	6	6	2	0	0	1	0	2	1	0
California State University-Northridge	6	5	0	0	0	0	0	4	1	1
Loyola Marymount University (CA)	6	6	0	0	0	1	1	4	0	0
Saint Mary's University of San Antonio (TX)	6	6	1	0	0	1	0	2	2	0
University of Texas-San Antonio	6	6	2	1	0	2	0	1	0	0
Total, top 27	310	277	39	9	3	69	6	104	47	33
Total, all U.S. institutions	570	514	77	16	5	112	12	189	103	56
Top 27 as a percent of all institutions	54.4%	53.9%	50.6%	56.2%	60.0%	61.6%	50.0%	55.0%	45.6%	58.9%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 14c. Top 23 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were "other Hispanic" U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of California-Berkeley	43	37	7	1	1	14	0	5	9	6
University of Miami (FL)	36	29	5	1	0	4	0	15	4	7
Cornell University (NY)	22	16	4	0	0	8	0	3	1	6
University of California-Los Angeles	20	19	1	0	0	7	0	7	4	1
Florida International University	19	19	4	1	1	1	1	10	1	0
Rutgers University (NJ)	18	16	2	0	1	5	1	3	4	2
University of Puerto Rico-Rio Piedras	17	17	4	0	0	5	0	5	3	0
University of Maryland-College Park	15	12	0	0	0	3	0	5	4	3
University of Florida-Gainesville	15	13	1	0	0	1	2	5	4	2
Harvard University (MA)	14	12	1	2	1	5	0	2	1	2
University of New Mexico-Albuquerque	12	11	1	0	0	5	0	3	2	1
Georgia Institute of Technology	12	8	2	1	2	3	0	0	0	4
New York University	12	12	2	0	1	1	0	7	1	0
University of Texas-Austin	11	10	3	0	0	3	0	2	2	1
Fordham University (NY)	11	11	1	0	0	2	0	7	1	0
University of South Florida	11	10	1	0	0	3	0	4	2	1
University of California-Irvine	10	10	1	1	0	3	0	5	0	0
Massachusetts Institute of Technology	10	5	2	0	0	1	0	0	2	5
University of Illinois-Urbana-Champaign	10	6	2	0	0	3	0	1	0	4
Georgetown University (DC)	10	10	2	0	0	2	0	0	6	0
University of Arizona	8	7	2	0	1	2	0	1	1	1
University of Virginia-Charlottesville	8	7	1	0	0	1	0	2	3	1
Princeton University (NJ)	8	6	1	0	0	2	0	0	3	2
Total, top 23	352	303	50	7	8	84	4	92	58	49
Total, all U.S. institutions	940	805	155	23	17	204	14	246	146	135
Top 23 as a percent of all institutions	37.4%	37.6%	32.3%	30.4%	47.1%	41.2%	28.6%	37.4%	39.7%	36.3%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 15. Top 20 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were American Indian U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
University of Oklahoma-Norman	8	7	0	0	0	1	0	5	1	1
Oklahoma State University-Stillwater	7	4	1	0	0	1	0	2	0	3
University of Illinois-Urbana-Champaign	6	5	2	0	0	1	0	1	1	1
University of California-Berkeley	6	4	0	0	0	0	0	0	4	2
Cornell University (NY)	4	3	0	0	0	2	0	0	1	1
University of Arkansas-Fayetteville	4	4	1	0	0	1	0	1	1	0
University of Central Oklahoma	4	4	0	0	0	1	0	3	0	0
University of Montana-Missoula	4	4	1	0	0	0	0	2	1	0
University of Colorado-Boulder	4	3	0	0	0	1	0	0	2	1
University of Arizona	4	3	2	0	0	1	0	0	0	1
University of California-Davis	4	4	0	0	0	2	0	0	2	0
Rutgers University-New Brunswick (NJ)	3	3	1	0	0	2	0	0	0	0
Southeast Missouri State University	3	3	1	0	0	1	0	1	0	0
University of Kansas-Lawrence	3	3	1	0	0	1	0	1	0	0
University of Delaware	3	1	0	0	0	1	0	0	0	2
University of Virginia	3	2	0	0	0	1	0	1	0	1
University of North Carolina-Chapel Hill	3	3	1	0	0	1	0	0	1	0
Auburn University (AL)	3	2	1	0	0	0	0	0	1	1
Northeastern State University (OK)	3	3	1	0	0	0	0	0	2	0
University of California-Los Angeles	3	3	0	0	0	1	0	2	0	0
Total, top 20	82	68	13	0	0	19	0	19	17	14
Total, all U.S. institutions	298	264	51	7	5	61	8	68	64	34
Top 20 as a percent of all institutions	27.5%	25.8%	25.5%	0.0%	0.0%	31.1%	0.0%	27.9%	26.6%	41.2%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 16. Top 26 institutions that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were black U.S. citizens, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science							Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences	
Howard University (DC)*	58	49	2	0	0	10	0	22	15	9
Spelman College (GA)*	42	38	3	0	0	6	0	19	10	4
University of Michigan-Ann Arbor	24	18	1	0	0	5	0	7	5	6
University of Maryland-College Park	23	21	4	2	0	3	0	6	6	2
Fisk University (TN)*	21	21	4	0	1	11	0	2	3	0
University of California-Berkeley	21	19	3	0	0	2	0	6	8	2
Brown University (RI)	20	18	1	0	0	3	0	10	4	2
Harvard University (MA)	19	19	1	0	0	4	1	3	10	0
Michigan State University-East Lansing	19	17	1	0	0	1	1	6	8	2
Hampton University (VA)*	19	19	1	0	0	5	0	8	5	0
Morehouse College (GA)*	19	17	2	0	1	3	0	7	4	2
Tuskegee University (AL)*	19	16	1	0	0	8	1	1	5	3
North Carolina Central University*	18	18	2	0	0	4	0	3	9	0
Lincoln University (PA)*	17	17	3	0	0	5	0	4	5	0
University of Pennsylvania	17	15	1	0	0	2	0	5	7	2
North Carolina State University-Raleigh	17	11	1	0	1	7	2	0	0	6
North Carolina Agricultural & Technical State University*	17	9	1	0	0	1	0	6	1	8
Southern University and A&M College (LA)*	17	11	1	0	0	1	1	3	5	6
Cornell University (NY)	16	12	2	0	0	4	0	4	2	4
Jackson State University (MS)*	16	15	3	0	1	4	0	4	3	1
Massachusetts Institute of Technology	15	6	4	0	0	1	0	1	0	9
Tennessee State University*	15	12	1	1	0	5	0	5	0	3
University of California-Los Angeles	15	15	2	0	0	2	0	8	3	0
Wayne State University (MI)	14	12	0	0	1	2	0	8	1	2
Princeton University (NJ)	13	8	2	0	0	4	0	1	1	5
Ohio State University-Columbus	13	12	0	0	0	0	1	6	5	1
Total, top 26	524	445	47	3	5	103	7	155	125	79
Total, all U.S institutions	1,855	1,651	153	28	28	296	34	591	521	204
Top 26 as a percent of all institutions	28.2%	27.0%	30.7%	10.7%	17.9%	34.8%	20.6%	26.2%	24.0%	38.7%

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences

\* The historically black colleges and universities (HBCUs) were founded during legal segregation in the late 1800s and early 1900s for the specific purpose of educating blacks.  
There are currently 103 HBCUs, 86 of which award baccalaureates.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 17. Historically black colleges and universities (HBCUs) that were baccalaureate origins of 1991-95 science and engineering (S&E) doctorate recipients who were black U.S. citizens, by field of doctorate**

Field of doctorate	Baccalaureate origins in HBCUs	Baccalaureate origins of all black U.S. citizens receiving Ph.D.s	HBCUs as a percent of all institutions
Total, all fields	1,790	5,284	33.9%
Total science & engineering	499	1,855	26.9
Total sciences	455	1,651	27.6
Field of science			
Physical sciences <sup>1</sup>	45	153	29.4
Mathematics	3	28	10.7
Computer sciences	9	28	32.1
Biological sciences	115	296	38.9
Agricultural sciences	16	34	47.1
Psychology	139	591	23.5
Social sciences	128	521	24.6
Total engineering	44	204	21.6
Total, non-science and engineering	1,291	3,429	37.6

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Field of doctorate									Biological & agricultural sciences		
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	Total	Biological sciences	Agricultural sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences								
University of California-Berkeley	1,590	238	88	147	3	49	62	54	397	374	23		
University of Illinois-Urbana-Champaign	1,129	146	84	61	1	27	16	32	343	272	71		
Cornell University (NY)	1,090	150	46	99	5	29	20	31	407	346	61		
University of Michigan-Ann Arbor	1,060	121	58	62	1	32	19	38	237	222	15		
Massachusetts Institute of Technology	1,000	248	59	188	1	18	42	96	159	156	3		
University of Wisconsin-Madison	995	106	60	44	2	42	24	28	321	257	64		
Pennsylvania State University	865	95	60	34	1	35	13	13	293	241	52		
University of California-Los Angeles	781	88	33	55	0	38	27	20	168	165	3		
Harvard University (MA)	752	112	32	80	0	27	50	52	215	211	4		
University of Minnesota-Minneapolis	712	87	45	41	1	20	22	27	221	150	71		
University of Texas-Austin	681	76	28	48	0	26	18	20	122	116	6		
University of California-Davis	663	75	42	30	3	33	16	7	318	271	47		
Ohio State University-Columbus	635	59	30	26	3	19	17	18	176	141	35		
Michigan St University-East Lansing	630	58	32	26	0	18	16	19	232	174	58		
Purdue University (IN)	621	79	56	23	0	15	11	20	159	116	43		
Rutgers University-New Brunswick(NJ)	620	74	51	21	2	29	20	10	221	189	32		
University of Maryland-College Park	595	52	23	29	0	16	19	20	158	140	18		
Texas A&M University-College Station	569	44	19	25	0	30	15	9	208	145	63		
University of Washington-Seattle	560	58	21	37	0	29	16	11	150	126	24		
Princeton University (NJ)	544	102	16	85	1	17	22	30	140	140	0		
University of Pennsylvania	535	48	27	21	0	8	20	23	122	121	1		
University of California-San Diego	535	77	42	35	0	18	28	8	182	181	1		
Stanford University (CA)	519	62	17	42	3	21	18	22	136	131	5		
Iowa State University	515	40	20	20	0	12	18	12	198	119	79		
Virginia Polytech Institute & State University	514	52	34	18	0	16	12	13	133	95	38		
University of Colorado-Boulder	500	46	22	22	2	24	19	16	128	122	6		
Yale University (CT)	495	53	21	32	0	20	27	25	140	139	1		
Brown University (RI)	469	30	7	23	0	29	13	30	112	110	2		
Brigham Young University (UT)	460	60	35	25	0	11	12	9	98	69	29		
University of Florida-Gainesville	453	49	31	18	0	11	11	5	122	90	32		
University of California-Santa Barbara	453	45	28	15	2	37	14	11	132	121	11		
University of Chicago (IL)	435	86	37	49	0	19	32	12	114	112	2		
State University of New York-Buffalo	415	48	38	9	1	14	9	9	84	82	2		
University of Massachusetts-Amherst	408	45	30	15	0	17	8	5	119	98	21		
Duke University (NC)	399	41	20	20	1	16	6	16	115	114	1		
University of California-Santa Cruz	393	44	26	18	0	24	15	12	124	117	7		
University of Virginia-Charlottesville	389	46	25	21	0	14	10	6	90	88	2		
Indiana University-Bloomington	372	50	30	20	0	19	8	11	101	92	9		
Rensselaer Polytech Institute (NY)	370	86	30	56	0	5	25	14	34	34	0		
University of California-Irvine	370	65	39	26	0	6	11	12	96	94	2		
University of Delaware	369	65	52	13	0	16	7	5	109	91	18		
California Institute of Technology	368	144	22	121	1	21	32	16	37	36	1		
University of North Carolina-Chapel Hill	354	67	45	22	0	17	9	9	103	96	7		
University of Arizona	354	54	21	32	1	14	8	7	83	68	15		
Colorado State University	339	26	17	9	0	5	11	2	155	95	60		
North Carolina State University-Raleigh	338	49	31	18	0	8	17	6	110	69	41		
Northwestern University (IL)	337	47	23	23	1	6	12	13	83	82	1		
University of Rochester (NY)	334	60	21	39	0	14	3	6	82	81	1		

See footnote at end of table

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
University of California-Berkeley	178	285	327	47	24	104	37	115	2,128	
University of Illinois-Urbana-Champaign	134	97	334	41	31	115	55	92	1,568	
Cornell University (NY)	152	110	191	26	10	61	31	63	1,387	
University of Michigan-Ann Arbor	222	156	235	29	10	63	27	106	1,571	
Massachusetts Institute of Technology	18	52	367	47	11	131	41	137	1,049	
University of Wisconsin-Madison	155	123	196	48	12	49	33	54	1,461	
Pennsylvania State University	99	87	230	35	12	49	30	104	1,222	
University of California-Los Angeles	235	112	93	5	11	42	7	28	1,144	
Harvard University (MA)	74	191	31	1	4	8	6	12	1,088	
University of Minnesota-Minneapolis	93	93	149	33	11	39	26	40	1,069	
University of Texas-Austin	139	113	167	37	20	51	29	30	1,117	
University of California-Davis	58	70	86	17	9	17	19	24	795	
Ohio State University-Columbus	104	100	142	19	10	40	22	51	1,082	
Michigan St University-East Lansing	108	96	83	6	14	23	17	23	1,041	
Purdue University (IN)	48	40	249	35	15	87	34	78	838	
Rutgers University-New Brunswick(NJ)	105	63	98	15	5	20	9	49	899	
University of Maryland-College Park	117	97	116	14	7	45	22	28	914	
Texas A&M University-College Station	56	36	171	23	9	28	40	71	744	
University of Washington-Seattle	88	87	121	24	14	30	14	39	850	
Princeton University (NJ)	36	102	95	16	10	28	14	27	733	
University of Pennsylvania	114	113	87	35	3	19	7	23	774	
University of California-San Diego	84	54	84	13	2	30	11	28	633	
Stanford University (CA)	72	95	93	14	10	35	13	21	772	
Iowa State University	39	40	156	26	15	39	28	48	694	
Virginia Polytech Institute & State University	37	29	222	30	18	50	49	75	626	
University of Colorado-Boulder	76	81	110	23	13	26	8	40	722	
Yale University (CT)	65	136	29	5	2	9	5	8	837	
Brown University (RI)	118	83	54	4	3	19	4	24	660	
Brigham Young University (UT)	92	81	97	24	15	18	29	11	836	
University of Florida-Gainesville	91	62	102	11	8	26	21	36	759	
University of California-Santa Barbara	82	76	56	7	3	16	16	14	657	
University of Chicago (IL)	50	108	14	2	1	3	3	5	593	
State University of New York-Buffalo	79	61	111	9	15	33	28	26	689	
University of Massachusetts-Amherst	80	80	54	15	4	15	11	9	673	
Duke University (NC)	89	43	73	3	4	17	12	37	562	
University of California-Santa Cruz	73	87	14	1	1	8	0	4	544	
University of Virginia-Charlottesville	78	60	85	14	2	27	12	30	588	
Indiana University-Bloomington	94	84	5	0	0	3	0	2	795	
Rensselaer Polytech Institute (NY)	8	6	192	34	6	54	26	72	387	
University of California-Irvine	105	46	29	0	5	12	9	3	464	
University of Delaware	45	46	76	30	3	26	10	7	487	
California Institute of Technology	3	11	104	10	4	57	9	24	381	
University of North Carolina-Chapel Hill	80	51	18	0	0	6	0	12	645	
University of Arizona	55	54	79	7	8	31	9	24	590	
Colorado State University	53	37	50	4	15	13	10	8	486	
North Carolina State University-Raleigh	14	13	121	25	7	21	16	52	421	
Northwestern University (IL)	53	60	63	13	5	14	6	25	560	
University of Rochester (NY)	71	32	66	11	2	23	7	23	495	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
University of Missouri-Columbia	333	23	15	8	0	4	13	6	103	
Johns Hopkins University (MD)	324	30	10	19	1	8	9	20	101	
Rice University (TX)	324	61	17	41	3	9	23	25	62	
University of Connecticut-Storrs	313	48	33	15	0	7	8	5	102	
University of Iowa	303	33	20	13	0	9	6	8	96	
State University of New York-Stony Brook	302	45	25	20	0	10	14	5	95	
Case Western Reserve University (OH)	296	56	21	35	0	6	11	11	53	
Boston University (MA)	288	26	12	14	0	7	7	8	58	
University of Kansas	286	33	20	12	1	6	9	6	68	
Washington University (MO)	282	44	16	28	0	6	8	6	67	
Georgia Institute of Technology	281	38	14	24	0	6	15	9	23	
University of Utah	279	42	26	16	0	10	8	16	46	
University of Notre Dame (IN)	278	35	14	20	1	9	5	4	61	
University of Tennessee-Knoxville	278	25	14	11	0	4	3	4	76	
University of Nebraska-Lincoln.	276	22	13	9	0	8	7	11	87	
Louisiana State University & A&M College	272	29	15	14	0	8	7	6	78	
Columbia University (NY)	270	45	15	30	0	7	12	14	41	
State University of New York-Binghamton	268	34	20	14	0	6	10	7	62	
Oklahoma State University	268	14	7	7	0	5	1	2	96	
Oberlin College (OH)	266	43	25	18	0	15	11	5	59	
Carleton College (MN)	260	80	47	33	0	28	6	6	69	
Oregon State University	257	27	15	11	1	13	13	9	109	
State University of New York-Albany	256	25	14	11	0	9	8	6	62	
Carnegie Mellon University (PA)	250	35	13	21	1	0	6	29	42	
Swarthmore College (PA)	248	37	12	25	0	3	4	6	71	
University of Puerto Rico-Rio Piedras	243	58	44	14	0	3	2	4	54	
College of William & Mary (VA)	240	56	37	18	1	14	4	10	71	
Dartmouth College (NH)	233	45	20	23	2	23	7	13	46	
Auburn University (AL)	231	21	5	16	0	4	10	3	68	
New York University	229	21	13	8	0	1	8	7	43	
University of Georgia	225	21	20	1	0	3	7	5	93	
University of Pittsburgh (PA)	223	43	32	10	1	7	6	2	47	
Arizona State University-Tempe	221	20	13	7	0	6	8	4	47	
San Diego State University (CA)	220	21	17	4	0	10	4	1	31	
University of Cincinnati (OH)	216	35	27	8	0	5	3	1	40	
Miami University (OH)	213	28	21	7	0	11	5	4	62	
University of Oklahoma-Norman	212	27	14	13	0	8	8	4	39	
Southern Illinois University-Carbondale	211	24	20	4	0	6	3	3	68	
University of Oregon	211	26	18	8	0	4	5	3	47	
Tufts University (MA)	209	17	9	8	0	12	3	4	37	
Texas Tech University	204	18	10	8	0	8	2	2	59	
Washington State University-Pullman	202	19	16	3	0	2	6	7	85	
Florida State University	201	25	16	9	0	13	8	10	42	
Kansas State University	198	18	8	10	0	5	5	3	98	
University of Vermont	196	23	17	6	0	10	4	3	80	
University of Southern California	192	10	8	2	0	2	4	6	26	
University of Kentucky	190	15	8	7	0	8	7	3	60	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
University of Missouri-Columbia	75	55	54	10	4	15	11	14	566	
Johns Hopkins University (MD)	34	36	86	16	4	15	7	44	397	
Rice University (TX)	29	25	90	11	4	36	18	21	395	
University of Connecticut-Storrs	66	38	39	4	6	8	13	8	463	
University of Iowa	40	46	65	10	6	18	17	14	604	
State University of New York-Stony Brook	61	36	36	2	0	14	3	17	416	
Case Western Reserve University (OH)	32	14	113	18	5	31	13	46	386	
Boston University (MA)	89	53	40	0	0	12	7	21	547	
University of Kansas	73	33	58	5	12	19	9	13	540	
Washington University (MO)	50	51	50	8	5	19	7	11	408	
Georgia Institute of Technology	7	7	176	19	12	76	31	38	313	
University of Utah	57	36	64	13	8	8	12	23	465	
University of Notre Dame (IN)	59	33	72	15	3	28	8	18	389	
University of Tennessee-Knoxville	36	32	98	18	9	26	12	33	507	
University of Nebraska-Lincoln.	36	44	61	4	11	17	10	19	493	
Louisiana State University & A&M College	53	40	51	11	8	13	12	7	455	
Columbia University (NY)	35	48	68	13	2	24	10	19	423	
State University of New York-Binghamton	95	41	13	0	1	6	0	6	375	
Oklahoma State University	50	30	70	10	6	16	20	18	456	
Oberlin College (OH)	55	71	7	2	1	0	0	4	500	
Carleton College (MN)	22	42	7	1	0	3	1	2	359	
Oregon State University	7	18	61	9	13	18	12	9	338	
State University of New York-Albany	86	55	5	0	0	2	2	1	379	
Carnegie Mellon University (PA)	11	7	120	29	9	40	14	28	285	
Swarthmore College (PA)	38	68	21	1	0	7	6	7	353	
University of Puerto Rico-Rio Piedras	56	53	13	2	2	5	1	3	509	
College of William & Mary (VA)	26	48	11	2	0	2	0	7	389	
Dartmouth College (NH)	33	44	22	2	1	8	4	7	332	
Auburn University (AL)	22	29	74	6	7	21	10	30	385	
New York University	88	51	10	0	2	5	1	2	411	
University of Georgia	39	43	14	0	3	1	0	10	499	
University of Pittsburgh (PA)	28	37	53	13	3	14	8	15	412	
Arizona State University-Tempe	61	30	45	6	6	11	9	13	455	
San Diego State University (CA)	102	38	13	1	4	4	0	4	401	
University of Cincinnati (OH)	39	24	69	6	8	18	11	26	385	
Miami University (OH)	53	43	7	2	0	3	0	2	409	
University of Oklahoma-Norman	53	30	43	15	5	10	5	8	403	
Southern Illinois University-Carbondale	44	35	28	2	4	6	7	9	488	
University of Oregon	55	63	8	1	1	2	2	2	405	
Tufts University (MA)	54	42	40	11	3	11	10	5	300	
Texas Tech University	40	28	47	3	5	23	6	10	358	
Washington State University-Pullman	13	29	41	6	3	9	8	15	296	
Florida State University	47	44	12	2	1	4	3	2	500	
Kansas State University	18	14	37	9	0	9	10	9	347	
University of Vermont	30	24	22	1	4	4	5	8	269	
University of Southern California	59	27	58	10	2	22	2	22	292	
University of Kentucky	30	26	41	10	9	8	5	9	331	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Wesleyan University (CT)	189	22	10	11	1	9	5	6	41	
University of New Mexico	186	18	9	9	0	11	14	1	34	
University of New Hampshire-Durham	184	15	12	3	0	9	3	2	72	
Wayne State University (MI)	183	24	18	6	0	4	1	6	50	
West Virginia University	183	19	13	6	0	5	4	2	58	
Reed College (OR)	182	40	23	17	0	2	24	2	66	
California State University-Northridge	182	10	4	6	0	4	6	2	21	
California State University-Long Beach	181	15	10	4	1	4	4	5	33	
Vanderbilt University (TN)	172	16	5	11	0	4	3	9	36	
Lehigh University (PA)	171	32	8	24	0	4	5	5	23	
St. Olaf College (MN)	171	38	25	12	1	2	29	1	47	
Syracuse University (NY)	170	19	12	7	0	7	7	7	45	
Clemson University (SC)	170	19	15	4	0	5	6	4	47	
San Francisco State University (CA)	170	17	8	9	0	9	4	0	41	
Brandeis University (MA)	166	14	8	6	0	0	5	8	30	
Michigan Technological University	166	23	12	11	0	9	3	7	29	
Temple University (PA)	164	24	18	6	0	3	10	1	31	
University of California-Riverside	163	18	9	9	0	12	7	2	60	
Ohio University	162	19	8	11	0	4	6	1	37	
University of Miami (FL)	162	16	11	5	0	11	4	3	43	
Georgetown University (DC)	160	13	7	6	0	1	3	1	17	
University of Hawaii-Manoa	157	24	15	9	0	6	3	2	34	
University of Maine-Orono	155	12	7	5	0	7	5	0	70	
Williams College (MA)	155	27	11	16	0	11	7	3	37	
Smith College (MA)	153	13	9	4	0	9	7	2	47	
Kent State University (OH)	152	21	13	8	0	4	8	7	31	
University of Houston (TX)	152	14	4	10	0	3	10	3	20	
California State University-Fullerton	152	9	4	5	0	5	6	5	27	
University of Missouri-Rolla	151	24	7	16	1	3	5	3	8	
University of Illinois-Chicago	150	27	14	13	0	3	4	9	22	
George Washington University (DC)	149	11	7	4	0	3	2	7	18	
Emory University (GA)	148	17	11	6	0	1	7	7	40	
Bucknell University (PA)	147	28	21	7	0	6	10	3	38	
University of Akron (OH)	147	32	21	11	0	1	2	2	18	
Illinois State University-Normal	147	34	28	6	0	3	2	4	37	
University of Rhode Island.	146	9	6	3	0	12	7	0	37	
City College-City University of NY	146	9	7	2	0	0	4	9	23	
University of Wisconsin-Milwaukee	146	19	12	7	0	11	6	1	21	
University of Arkansas-Fayetteville	146	13	12	1	0	6	4	3	51	
Mississippi State University-Starkville	145	7	2	5	0	4	2	3	65	
Northeastern University (MA)	138	20	11	9	0	6	3	5	27	
Wellesley College (MA)	137	10	8	2	0	6	4	2	33	
Pomona College (CA)	135	13	7	6	0	6	9	5	41	
Queens College-City University of NY	134	10	7	3	0	5	7	7	14	
University of South Carolina-Columbia	134	16	10	6	0	10	5	3	34	
University of Alabama-Tuscaloosa	134	20	10	10	0	3	3	7	19	
Utah State University	134	15	8	6	1	2	6	1	49	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Wesleyan University (CT)	56	42	8	0	2	1	2	3	308	
University of New Mexico	46	30	32	5	3	12	4	8	320	
University of New Hampshire-Durham	23	26	34	10	4	5	6	9	264	
Wayne State University (MI)	52	21	25	8	3	5	2	7	394	
West Virginia University	21	27	47	10	2	5	13	17	327	
Reed College (OR)	9	31	8	0	0	1	1	6	241	
California State University-Northridge	91	31	17	0	3	6	4	4	320	
California State University-Long Beach	82	24	14	1	0	7	4	2	367	
Vanderbilt University (TN)	38	15	51	7	7	18	3	16	260	
Lehigh University (PA)	12	4	86	20	4	31	13	18	210	
St. Olaf College (MN)	24	22	8	2	0	2	0	4	291	
Syracuse University (NY)	31	24	30	3	0	18	1	8	340	
Clemson University (SC)	13	12	64	21	3	12	10	18	247	
San Francisco State University (CA)	59	31	9	0	3	2	1	3	344	
Brandeis University (MA)	61	48	0	0	0	0	0	0	265	
Michigan Technological University	0	4	91	14	9	13	18	37	182	
Temple University (PA)	60	26	9	0	0	3	1	5	365	
University of California-Riverside	29	31	4	0	1	2	0	1	233	
Ohio University	26	41	28	6	3	8	5	6	384	
University of Miami (FL)	44	18	23	0	4	9	1	9	281	
Georgetown University (DC)	39	82	4	1	0	2	0	1	300	
University of Hawaii-Manoa	40	37	11	0	1	1	6	3	273	
University of Maine-Orono	24	12	25	7	4	6	2	6	227	
Williams College (MA)	29	35	6	0	0	1	0	5	217	
Smith College (MA)	39	36	0	0	0	0	0	0	285	
Kent State University (OH)	53	28	0	0	0	0	0	0	346	
University of Houston (TX)	49	20	33	7	0	14	6	6	329	
California State University-Fullerton	82	15	3	0	0	3	0	0	267	
University of Missouri-Rolla	4	2	102	13	6	22	17	44	164	
University of Illinois-Chicago	26	25	34	6	3	4	14	7	284	
George Washington University (DC)	29	53	26	0	5	7	3	11	258	
Emory University (GA)	56	18	2	1	0	1	0	0	228	
Bucknell University (PA)	16	21	25	2	3	7	4	9	206	
University of Akron (OH)	35	16	41	17	4	3	7	10	243	
Illinois State University-Normal	40	26	1	1	0	0	0	0	345	
University of Rhode Island.	24	21	36	7	1	12	9	7	227	
City College-City University of NY	37	29	35	9	2	12	4	8	265	
University of Wisconsin-Milwaukee	30	32	26	0	7	3	7	9	284	
University of Arkansas-Fayetteville	16	18	35	2	7	11	2	13	274	
Mississippi State University-Starkville	10	8	46	4	7	11	8	16	255	
Northeastern University (MA)	16	13	48	4	5	17	10	12	210	
Wellesley College (MA)	40	39	3	0	1	0	0	2	261	
Pomona College (CA)	35	22	4	1	1	2	0	0	192	
Queens College-City University of NY	58	30	3	0	0	3	0	0	301	
University of South Carolina-Columbia	22	22	22	4	6	8	2	2	323	
University of Alabama-Tuscaloosa	23	25	34	4	7	6	3	14	314	
Utah State University	22	22	17	0	5	2	6	4	222	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Barnard College-Columbia University (NY)	133	6	3	3	0	2	1	2	19	
San Jose State University (CA)	133	18	13	5	0	7	2	1	21	
Colgate University (NY)	132	26	20	6	0	17	4	2	30	
Drexel University (PA)	132	16	6	10	0	4	6	5	17	
Baylor University (TX)	132	9	5	4	0	5	8	5	35	
Boston College (MA)	131	16	14	2	0	4	7	0	28	
California Polytechnic State University-San Luis Obispo	131	30	21	8	1	5	3	1	45	
University of Dayton (OH)	128	20	10	10	0	2	7	3	30	
Grinnell College (IA)	128	33	26	7	0	2	8	5	33	
Marquette University (WI)	127	15	12	3	0	0	3	1	38	
University of Texas-Arlington	127	21	10	11	0	3	5	4	21	
University of Montana-Missoula	127	13	7	6	0	11	3	3	44	
Northern Illinois University	126	20	16	4	0	4	9	3	36	
Wake Forest University (NC)	126	32	23	9	0	2	2	3	32	
University of Wyoming-Laramie	126	15	7	7	1	13	5	1	38	
Vassar College (NY)	125	8	1	7	0	4	4	6	23	
California State University-Fresno	125	19	8	11	0	10	2	2	26	
Mount Holyoke College (MA)	124	13	9	4	0	3	5	1	50	
University of South Florida	124	13	8	5	0	5	4	4	25	
Harvey Mudd College (CA)	124	65	31	34	0	1	16	4	12	
New Mexico State University	123	10	6	4	0	2	1	1	37	
U.S. Military Academy (NY)	122	8	1	7	0	1	10	18	2	
Bryn Mawr College (PA)	121	15	10	5	0	3	8	1	25	
Hunter College-City University of NY	120	12	9	3	0	1	5	1	26	
Montana State University-Bozeman	120	16	7	9	0	5	8	1	34	
Humboldt State University (CA)	120	10	4	6	0	19	7	4	59	
Amherst College (MA)	118	13	1	12	0	6	6	1	38	
Calvin College (MI)	118	25	19	6	0	3	7	9	22	
Bowling Green State University (OH)	117	18	16	2	0	3	3	5	41	
Kalamazoo College (MI)	115	27	22	5	0	0	2	5	33	
Clark University (MA)	114	6	4	2	0	3	2	1	28	
Haverford College (PA)	114	25	16	9	0	6	6	2	32	
University of Idaho	113	10	8	2	0	6	1	3	40	
University of Toledo (OH)	111	16	11	5	0	1	1	3	19	
U.S. Air Force Academy (CO)	111	12	4	8	0	2	6	11	3	
Brooklyn College-City University of NY	110	12	8	3	1	1	3	7	22	
Wheaton College (IL)	110	15	11	4	0	2	3	4	14	
Hope College (MI)	110	37	29	8	0	2	2	1	28	
North Dakota State University	110	22	20	2	0	3	1	2	51	
Worcester Polytech Institute (MA)	108	20	11	9	0	4	5	1	18	
Fordham University (NY)	107	9	9	0	0	0	5	2	28	
Union College (NY)	107	16	13	3	0	2	5	7	23	
Tulane University of Louisiana.	106	4	2	2	0	4	2	6	24	
Southern Methodist University (TX)	106	7	6	1	0	4	3	2	6	
Occidental College (CA)	106	23	16	7	0	5	1	1	24	
Loyola University of Chicago (IL)	105	12	9	3	0	0	3	2	21	
Western Michigan University	104	14	8	5	1	3	6	4	24	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Barnard College-Columbia University (NY)	58	44	1	0	0	0	0	1	238	
San Jose State University (CA)	41	26	17	2	2	3	3	7	250	
Colgate University (NY)	27	22	4	0	0	2	0	2	183	
Drexel University (PA)	3	9	72	8	7	24	16	17	150	
Baylor University (TX)	41	27	2	0	0	0	0	2	391	
Boston College (MA)	50	20	6	0	0	1	0	5	288	
California Polytechnic State University-San Luis Obispo	6	15	26	1	2	7	6	10	172	
University of Dayton (OH)	22	8	36	4	0	12	10	10	203	
Grinnell College (IA)	20	19	8	1	1	1	1	4	188	
Marquette University (WI)	31	15	24	0	2	4	6	12	238	
University of Texas-Arlington	18	12	43	0	4	20	12	7	205	
University of Montana-Missoula	25	24	4	0	0	1	0	3	198	
Northern Illinois University	30	22	2	0	0	0	0	2	351	
Wake Forest University (NC)	35	19	1	0	0	1	0	0	215	
University of Wyoming-Laramie	15	19	20	5	0	3	5	7	211	
Vassar College (NY)	49	29	2	0	0	1	0	1	201	
California State University-Fresno	39	15	12	0	3	3	3	3	251	
Mount Holyoke College (MA)	27	22	3	1	0	1	0	1	218	
University of South Florida	39	13	21	3	3	12	1	2	231	
Harvey Mudd College (CA)	0	3	23	0	1	10	5	7	126	
New Mexico State University	16	14	42	4	3	17	10	8	178	
U.S. Military Academy (NY)	5	31	47	1	7	14	4	21	178	
Bryn Mawr College (PA)	19	45	5	1	0	2	0	2	196	
Hunter College-City University of NY	56	19	0	0	0	0	0	0	303	
Montana State University-Bozeman	9	14	33	5	2	10	10	6	186	
Humboldt State University (CA)	10	9	2	0	2	0	0	0	179	
Amherst College (MA)	23	29	2	0	0	1	0	1	202	
Calvin College (MI)	22	17	13	0	0	3	3	7	203	
Bowling Green State University (OH)	23	19	5	0	0	2	1	2	301	
Kalamazoo College (MI)	25	16	7	1	0	3	2	1	158	
Clark University (MA)	46	24	4	1	1	0	1	1	157	
Haverford College (PA)	13	27	3	1	0	0	0	2	167	
University of Idaho	10	13	30	4	3	7	3	13	158	
University of Toledo (OH)	30	16	25	6	3	6	3	7	206	
U.S. Air Force Academy (CO)	7	18	52	0	9	12	5	26	148	
Brooklyn College-City University of NY	44	21	0	0	0	0	0	0	265	
Wheaton College (IL)	45	22	5	1	0	0	0	4	219	
Hope College (MI)	25	12	3	0	0	2	0	1	156	
North Dakota State University	10	8	13	1	2	5	1	4	150	
Worcester Polytech Institute (MA)	2	2	56	11	4	14	10	17	113	
Fordham University (NY)	39	22	2	0	0	1	0	1	205	
Union College (NY)	25	11	18	0	1	5	3	9	138	
Tulane University of Louisiana.	15	17	34	5	5	7	5	12	176	
Southern Methodist University (TX)	53	16	15	0	2	6	5	2	176	
Occidental College (CA)	26	19	7	0	1	2	0	4	162	
Loyola University of Chicago (IL)	42	22	3	1	0	1	0	1	235	
Western Michigan University	28	20	5	0	0	2	0	3	260	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	
		Total	chemistry	Physics & astronomy	Other physical sciences				
Clarkson University (NY)	103	33	23	10	0	1	2	4	5
University of North Dakota	103	10	9	1	0	2	4	3	23
California State University-Sacramento	103	20	15	5	0	3	5	2	13
Western Washington University	101	16	11	5	0	6	3	2	20
Franklin & Marshall College (PA)	100	26	23	3	0	9	2	0	18
College of Wooster (OH)	99	35	35	0	0	15	3	0	20
Indiana University of Pennsylvania	98	15	9	6	0	6	1	2	39
St. Louis University (MO)	97	16	13	3	0	3	2	2	31
Howard University (DC)	96	9	8	1	0	0	0	1	16
University of Southwestern Louisiana	96	5	1	4	0	4	8	17	17
Bates College (ME)	95	22	15	7	0	5	3	1	31
Lafayette College (PA)	95	15	9	6	0	4	4	1	23
California State Polytech University-Pomona	92	11	8	3	0	0	2	2	28
California State University-Los Angeles	92	10	8	2	0	3	1	1	20
Allegheny College (PA)	91	24	21	2	1	9	0	1	33
Bowdoin College (ME)	89	21	17	4	0	3	4	2	26
Earham College (IN)	89	11	8	3	0	8	1	0	34
California State University-Chico	88	8	5	3	0	3	4	0	29
University of New Orleans (LA)	87	11	8	3	0	2	6	6	14
Portland State University (OR)	87	7	4	3	0	6	1	3	18
Rochester Institute of Technology (NY)	86	28	17	11	0	1	1	0	26
University of Central Florida	86	21	16	5	0	1	1	7	17
University of Texas-El Paso	86	12	6	6	0	4	0	6	18
Colorado School of Mines	86	20	5	15	0	18	2	0	1
Macalester College (MN)	85	15	8	7	0	3	2	2	21
University of Louisville (KY)	84	9	9	0	0	0	3	0	23
Oakland University (MI)	83	13	9	4	0	2	0	3	16
Trinity University (TX)	83	10	8	2	0	5	2	1	18
Colorado College	83	14	8	5	1	3	1	1	24
Middlebury College (VT)	82	16	8	7	1	9	2	2	24
Cleveland State University (OH)	81	12	9	3	0	1	2	1	12
American University (DC)	81	7	5	2	0	0	0	3	15
University of North Texas	81	9	5	4	0	0	6	6	22
University of Wisconsin-Stevens Point	80	7	7	0	0	2	1	0	47
South Dakota State University	80	7	6	1	0	0	2	0	45
Old Dominion University (VA)	80	11	5	6	0	4	3	1	17
Northern Arizona University	80	11	10	1	0	4	5	2	26
Whitman College (WA)	80	13	6	7	0	8	5	1	18
Colby College (ME)	79	8	2	5	1	7	1	0	25
Wichita State University (KS)	79	9	7	2	0	0	5	1	10
Beloit College (WI)	78	13	12	1	0	13	3	1	15
Hamilton College (NY)	76	7	5	2	0	6	3	1	24
St. Lawrence University (NY)	76	15	12	3	0	15	3	1	17
Southwest Missouri State University	76	12	7	5	0	2	3	2	27
Davidson College (NC)	76	16	10	6	0	1	7	2	17
University of Nevada-Reno	76	7	3	4	0	7	1	1	18
Virginia Commonwealth University	75	15	14	1	0	1	1	1	12

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Clarkson University (NY)	2	2	54	13	6	10	7	18	113	
University of North Dakota	30	18	13	4	0	4	1	4	177	
California State University-Sacramento	24	28	8	0	4	2	0	2	211	
Western Washington University	25	23	6	2	1	2	0	1	169	
Franklin & Marshall College (PA)	24	17	4	1	0	2	0	1	124	
College of Wooster (OH)	13	12	1	0	0	0	0	1	165	
Indiana University of Pennsylvania	15	17	3	0	0	0	0	3	229	
St. Louis University (MO)	23	13	7	0	1	1	0	5	199	
Howard University (DC)	28	26	16	0	4	9	1	2	196	
University of Southwestern Louisiana	12	17	16	6	6	2	2	0	167	
Bates College (ME)	17	11	5	2	0	0	0	3	117	
Lafayette College (PA)	11	14	23	6	1	8	1	7	110	
California State Polytech University-Pomona	15	12	22	7	1	7	5	2	134	
California State University-Los Angeles	32	22	3	0	1	2	0	0	232	
Allegheny College (PA)	16	5	3	0	0	2	0	1	126	
Bowdoin College (ME)	11	19	3	1	0	1	0	1	131	
Earlham College (IN)	17	17	1	0	0	0	0	1	118	
California State University-Chico	12	22	10	0	1	1	5	3	173	
University of New Orleans (LA)	20	18	10	0	0	2	3	5	131	
Portland State University (OR)	17	24	11	0	3	4	0	4	158	
Rochester Institute of Technology (NY)	2	3	25	0	3	6	6	10	109	
University of Central Florida	11	13	15	0	0	9	2	4	157	
University of Texas-El Paso	17	15	14	0	1	4	1	8	141	
Colorado School of Mines	0	4	41	12	1	1	4	23	90	
Macalester College (MN)	9	29	4	0	0	2	0	2	152	
University of Louisville (KY)	14	12	23	1	3	8	2	9	150	
Oakland University (MI)	31	10	8	1	0	3	1	3	133	
Trinity University (TX)	27	13	7	2	0	2	2	1	138	
Colorado College	17	19	4	0	3	0	0	1	138	
Middlebury College (VT)	9	16	4	0	0	1	0	3	148	
Cleveland State University (OH)	23	5	25	5	3	6	5	6	151	
American University (DC)	25	28	3	0	0	1	0	2	144	
University of North Texas	24	14	0	0	0	0	0	0	252	
University of Wisconsin-Stevens Point	13	6	4	4	0	0	0	0	130	
South Dakota State University	7	5	14	0	3	5	2	4	136	
Old Dominion University (VA)	12	12	20	0	1	8	8	3	156	
Northern Arizona University	9	14	9	0	0	5	2	2	157	
Whitman College (WA)	11	18	6	0	2	1	0	3	116	
Colby College (ME)	13	23	2	0	1	1	0	0	117	
Wichita State University (KS)	10	16	28	2	0	10	7	9	152	
Beloit College (WI)	6	24	3	2	0	1	0	0	107	
Hamilton College (NY)	20	10	5	0	1	2	0	2	98	
St. Lawrence University (NY)	12	11	2	0	2	0	0	0	113	
Southwest Missouri State University	18	8	4	1	0	1	1	1	181	
Davidson College (NC)	20	11	2	0	0	0	2	0	121	
University of Nevada-Reno	14	16	12	1	1	6	1	3	107	
Virginia Commonwealth University	21	20	4	0	0	2	1	1	137	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Trinity College (CT)	74	13	9	4	0	1	2	1	20	
Wright State University (OH)	74	17	11	6	0	3	0	2	17	
Eastern Illinois University	74	15	9	6	0	3	1	1	25	
Central Michigan University	74	5	5	0	0	2	5	2	23	
University of Wisconsin-Eau Claire	74	24	20	4	0	4	2	1	14	
George Mason University (VA)	74	7	4	3	0	2	4	7	18	
James Madison University (VA)	74	12	10	2	0	4	2	2	23	
University of Tulsa (OK)	74	4	2	2	0	3	1	4	5	
University of Massachusetts-Lowell	73	16	9	7	0	0	1	3	17	
Texas Christian University	73	14	5	8	1	4	2	1	17	
Western Illinois University	72	13	12	1	0	3	5	2	22	
Furman University (SC)	72	18	18	0	0	6	2	1	16	
University of Southern Mississippi	71	13	10	3	0	3	2	6	16	
Louisiana Technical University	71	7	5	2	0	0	4	2	16	
Alfred University (NY)	70	3	2	1	0	1	0	2	8	
State University of New York-Oswego	70	13	12	1	0	2	0	3	20	
Youngstown State University (OH)	70	18	14	4	0	1	3	5	7	
Ball State University (IN)	70	7	7	0	0	1	1	3	11	
Valparaiso University (IN)	70	15	10	5	0	2	3	0	7	
University of Northern Iowa	70	18	11	7	0	1	2	1	10	
University of Puerto Rico-Mayaguez.	70	11	9	2	0	3	0	1	29	
State University of New York-Plattsburgh	69	8	8	0	0	3	1	1	32	
Villanova University (PA)	69	17	8	9	0	1	1	1	19	
Illinois Institute of Technology	69	16	7	9	0	0	1	8	3	
Rhodes College (TN)	69	15	7	8	0	2	3	1	11	
College of the Holy Cross (MA)	68	19	15	4	0	0	4	0	13	
Hofstra University (NY)	68	5	3	2	0	0	2	1	15	
Creighton University (NE)	67	13	10	3	0	0	0	0	17	
Georgia State University	67	7	1	6	0	2	2	1	8	
Santa Clara University (CA)	67	14	9	5	0	1	4	1	12	
State University of New York-GeneSEO.	66	18	10	8	0	2	1	0	15	
Bradley University (IL)	66	19	16	3	0	5	1	3	13	
Kenyon College (OH)	65	13	5	8	0	0	2	1	17	
Gustavus Adolphus College (MN)	65	20	12	8	0	4	2	0	12	
Sonoma State University (CA)	65	20	13	7	0	4	1	1	10	
Millersville University of Pennsylvania	64	9	8	1	0	4	4	3	17	
U.S. Naval Academy (MD)	64	8	3	4	1	4	3	5	1	
Catholic University of America (DC)	64	6	2	4	0	0	2	1	9	
Wittenberg University (OH)	63	18	11	7	0	2	1	0	18	
Fairleigh Dickinson University (NJ)	62	5	4	1	0	3	4	0	14	
Lawrence University (WI)	62	9	5	4	0	3	1	2	28	
University of Maryland-Baltimore County	62	12	10	2	0	0	2	2	22	
University of Denver (CO)	62	7	5	2	0	1	2	4	12	
State University of New York-Oneonta	61	16	15	1	0	10	3	1	7	
Tennessee Technological University	61	12	4	8	0	0	2	2	8	
Polytechnic University (NY)	59	7	5	2	0	2	5	3	5	
Augustana College (IL)	59	18	16	2	0	5	2	2	11	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Trinity College (CT)	23	10	4	0	0	1	2	1	109	
Wright State University (OH)	7	7	21	0	0	4	4	13	115	
Eastern Illinois University	13	13	3	0	0	0	2	1	209	
Central Michigan University	22	14	1	0	0	0	0	1	182	
University of Wisconsin-Eau Claire	18	8	3	0	1	0	0	2	154	
George Mason University (VA)	12	20	4	0	0	3	0	1	124	
James Madison University (VA)	22	8	1	0	0	0	0	1	158	
University of Tulsa (OK)	19	13	25	15	0	5	3	2	129	
University of Massachusetts-Lowell	6	0	30	4	2	11	9	4	102	
Texas Christian University	22	13	0	0	0	0	0	0	151	
Western Illinois University	11	13	3	1	0	0	0	2	160	
Furman University (SC)	14	14	1	0	0	0	0	1	164	
University of Southern Mississippi	19	6	6	1	0	2	0	3	234	
Louisiana Technical University	5	6	31	4	8	6	6	7	143	
Alfred University (NY)	9	1	46	1	0	2	0	43	83	
State University of New York-Oswego	16	13	3	0	1	1	0	1	149	
Youngstown State University (OH)	6	16	14	1	1	7	3	2	140	
Ball State University (IN)	28	19	0	0	0	0	0	0	222	
Valparaiso University (IN)	16	16	11	1	1	5	2	2	128	
University of Northern Iowa	22	11	5	1	0	0	1	3	185	
University of Puerto Rico-Mayaguez.	9	5	12	4	1	3	1	3	105	
State University of New York-Plattsburgh	18	5	1	0	0	0	0	1	121	
Villanova University (PA)	12	7	11	2	0	3	3	3	132	
Illinois Institute of Technology	1	2	38	8	1	13	8	8	75	
Rhodes College (TN)	24	10	3	0	1	2	0	0	96	
College of the Holy Cross (MA)	21	7	4	1	0	0	0	3	136	
Hofstra University (NY)	37	6	2	0	0	1	0	1	141	
Creighton University (NE)	24	12	1	0	0	0	0	1	111	
Georgia State University	31	15	1	0	0	0	1	0	192	
Santa Clara University (CA)	22	6	7	0	1	2	2	2	98	
State University of New York-Genesee.	15	14	1	0	0	0	0	1	120	
Bradley University (IL)	11	7	7	0	0	2	2	3	111	
Kenyon College (OH)	12	18	2	0	0	1	0	1	99	
Gustavus Adolphus College (MN)	15	8	4	1	1	1	0	1	110	
Sonoma State University (CA)	16	11	2	0	0	0	0	2	103	
Millersville University of Pennsylvania	16	7	4	0	0	1	0	3	126	
U.S. Naval Academy (MD)	2	12	29	0	1	11	6	11	88	
Catholic University of America (DC)	18	15	13	0	2	6	2	3	124	
Wittenberg University (OH)	10	14	0	0	0	0	0	0	112	
Fairleigh Dickinson University (NJ)	20	12	4	0	0	4	0	0	93	
Lawrence University (WI)	8	8	3	0	1	1	0	1	108	
University of Maryland-Baltimore County	12	8	4	0	0	1	1	2	82	
University of Denver (CO)	22	13	1	0	0	0	0	1	130	
State University of New York-Oneonta	10	10	4	0	1	0	0	3	117	
Tennessee Technological University	4	2	31	3	2	12	10	4	103	
Polytechnic University (NY)	1	0	36	0	5	18	3	10	66	
Augustana College (IL)	16	5	0	0	0	0	0	0	88	

See footnote at end of table

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Eastern Michigan University	59	12	10	2	0	1	0	4	19	
St. John's University (MN)	59	16	14	2	0	2	1	3	16	
University of Memphis (TN)	59	4	3	1	0	0	6	0	10	
University of Puget Sound (WA)	59	15	11	4	0	4	3	1	13	
St. John's University-Queens (NY)	58	12	10	2	0	0	1	5	22	
Antioch College (OH)	58	1	1	0	0	3	1	2	8	
Xavier University (OH)	58	14	4	10	0	1	2	3	10	
Florida Institute of Technology	58	12	7	5	0	2	1	4	15	
Evergreen State College (WA)	58	4	4	0	0	1	0	1	24	
SUNY Environmental Science & Forestry	57	7	7	0	0	1	0	2	39	
La Salle University (PA)	57	11	6	5	0	2	2	2	14	
Knox College (IL)	57	9	6	3	0	5	2	0	11	
University of Missouri-Saint Louis	57	17	9	8	0	0	4	0	10	
University of North Carolina-Charlotte	57	8	4	4	0	1	3	2	10	
Hendrix College (AR)	57	11	7	4	0	0	4	0	20	
University of Massachusetts-Dartmouth	56	14	10	4	0	0	1	0	23	
Connecticut College	56	4	3	1	0	2	1	0	19	
Dickinson College (PA)	56	8	4	4	0	5	1	1	14	
University of Scranton (PA)	56	18	16	2	0	0	1	3	20	
Florida Atlantic University	56	6	3	3	0	3	0	1	11	
Loyola Marymount University (CA)	56	9	5	4	0	1	0	2	16	
St. Joseph's University (PA)	55	7	6	1	0	1	0	1	26	
John Carroll University (OH)	55	7	4	3	0	0	2	1	20	
Rose-Hulman Institute of Technology (IN)	55	14	9	4	1	0	6	4	2	
Columbia College-Columbia University (NY)	54	4	1	3	0	1	4	2	16	
Gettysburg College (PA)	54	15	14	1	0	2	0	1	10	
Muhlenberg College (PA)	54	4	3	1	0	1	3	1	27	
Mankato State University (MN)	54	14	12	2	0	1	2	6	10	
University of Northern Colorado	54	10	6	4	0	1	2	1	9	
University of Massachusetts, Harbor Campus	53	13	13	0	0	1	0	0	9	
Manhattan College (NY)	53	9	6	3	0	2	1	1	13	
State University of New York-Fredonia	53	17	15	2	0	3	2	0	16	
University of Wisconsin-Oshkosh	53	8	6	2	0	9	1	3	16	
Idaho State University	53	10	9	1	0	1	4	0	12	
Providence College (RI)	52	6	6	0	0	1	6	0	15	
Juniata College (PA)	52	16	15	1	0	5	0	0	19	
University of Wisconsin-River Falls	52	22	15	6	1	0	0	0	20	
St. Cloud State University (MN)	52	6	4	1	1	2	4	1	15	
Towson State University (MD)	52	6	1	5	0	0	4	3	14	
University of North Carolina-Greensboro	52	9	8	1	0	1	0	0	8	
Florida International University	52	8	7	1	0	1	4	1	5	
New Mexico Institute of Mining & Technology	52	19	7	11	1	9	3	2	6	
California State University-Hayward	52	11	6	5	0	0	1	3	11	
State University of New York-Potsdam	51	16	12	4	0	0	2	1	9	
Denison University (OH)	51	9	4	5	0	3	0	3	5	
Drake University (IA)	51	11	6	5	0	1	3	1	9	
Luther College (IA)	51	8	7	1	0	0	2	2	19	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Eastern Michigan University	17	4	2	0	0	0	0	2	176	
St. John's University (MN)	8	8	5	0	0	1	0	4	90	
University of Memphis (TN)	19	8	12	0	1	4	4	3	172	
University of Puget Sound (WA)	11	10	2	0	0	0	0	2	97	
St. John's University-Queens (NY)	12	4	2	0	0	0	1	1	130	
Antioch College (OH)	19	24	0	0	0	0	0	0	114	
Xavier University (OH)	14	12	2	0	1	1	0	0	81	
Florida Institute of Technology	2	1	21	3	4	7	3	4	62	
Evergreen State College (WA)	14	14	0	0	0	0	0	0	91	
SUNY Environmental Science & Forestry	1	1	6	0	4	0	0	2	60	
La Salle University (PA)	18	8	0	0	0	0	0	0	121	
Knox College (IL)	15	13	2	1	0	1	0	0	98	
University of Missouri-Saint Louis	14	12	0	0	0	0	0	0	118	
University of North Carolina-Charlotte	14	10	9	0	1	6	0	2	96	
Hendrix College (AR)	16	4	2	0	0	1	0	1	85	
University of Massachusetts-Dartmouth	6	4	8	0	2	4	1	1	71	
Connecticut College	20	10	0	0	0	0	0	0	106	
Dickinson College (PA)	14	10	3	0	0	0	0	3	100	
University of Scranton (PA)	9	4	1	1	0	0	0	0	88	
Florida Atlantic University	19	8	8	0	0	7	0	1	115	
Loyola Marymount University (CA)	22	3	3	0	1	1	0	1	102	
St. Joseph's University (PA)	10	10	0	0	0	0	0	0	80	
John Carroll University (OH)	12	8	5	0	0	4	0	1	92	
Rose-Hulman Institute of Technology (IN)	0	1	28	10	1	7	6	4	59	
Columbia College-Columbia University (NY)	10	13	4	1	0	2	0	1	98	
Gettysburg College (PA)	17	8	1	0	0	1	0	0	85	
Muhlenberg College (PA)	12	4	2	1	0	1	0	0	96	
Mankato State University (MN)	7	10	4	0	1	1	0	2	123	
University of Northern Colorado	13	18	0	0	0	0	0	0	167	
University of Massachusetts, Harbor Campus	17	11	2	0	1	1	0	0	130	
Manhattan College (NY)	6	5	16	8	1	4	2	1	87	
State University of New York-Fredonia	4	8	3	2	0	0	0	1	116	
University of Wisconsin-Oshkosh	10	5	1	0	0	0	0	1	110	
Idaho State University	9	13	4	1	1	0	1	1	91	
Providence College (RI)	8	12	4	1	0	2	0	1	78	
Juniata College (PA)	6	4	2	0	0	0	0	2	66	
University of Wisconsin-River Falls	1	5	4	1	0	0	1	2	74	
St. Cloud State University (MN)	12	10	2	0	0	0	0	2	115	
Towson State University (MD)	13	8	4	1	0	1	0	2	110	
University of North Carolina-Greensboro	18	15	1	0	0	0	0	1	167	
Florida International University	19	12	2	0	1	0	1	0	115	
New Mexico Institute of Mining & Technology	0	0	13	1	0	2	0	10	53	
California State University-Hayward	17	9	0	0	0	0	0	0	84	
State University of New York-Potsdam	11	9	3	0	0	0	0	3	110	
Denison University (OH)	21	8	2	0	0	0	0	2	86	
Drake University (IA)	9	16	1	0	0	0	0	1	116	
Luther College (IA)	11	6	3	0	0	0	0	3	107	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Loyola College in Maryland	51	13	10	3	0	0	3	2	13	
College of Charleston (SC)	51	13	11	2	0	2	0	2	16	
Montclair State University (NJ)	50	9	8	1	0	3	0	1	12	
DePaul University (IL)	50	9	3	6	0	0	3	4	11	
New College/University of South Florida	50	11	8	3	0	2	5	3	11	
University of Mississippi-Oxford	50	5	3	2	0	1	2	2	14	
Radcliffe College (MA)	49	3	2	1	0	0	6	2	13	
State University of New York-Brockport	49	4	4	0	0	4	2	0	11	
Stevens Institute of Technology (NJ)	49	19	11	8	0	0	2	3	0	
DePauw University (IN)	49	9	8	1	0	1	1	1	14	
University of Nebraska-Omaha	49	9	8	1	0	4	1	3	11	
Stephen F. Austin State University	49	4	4	0	0	1	2	2	23	
State University of New York-Cortland	48	4	2	2	0	3	1	1	11	
Wabash College (IN)	48	20	14	6	0	0	1	0	19	
University of Minnesota-Duluth	48	10	9	1	0	5	1	1	17	
Western Kentucky University	48	12	8	4	0	1	2	4	18	
Lewis and Clark College (OR)	48	4	3	1	0	0	1	0	22	
Fairfield University (CT)	47	9	7	2	0	0	0	0	16	
Canisius College (NY)	47	13	12	1	0	1	1	1	18	
Skidmore College (NY)	47	5	5	0	0	0	0	0	14	
State University of New York-New Paltz	47	2	2	0	0	0	1	4	8	
Ohio Wesleyan University	47	5	3	2	0	1	3	1	15	
Butler University (IN)	47	13	10	3	0	0	1	1	11	
Southern Illinois University-Edwardsville	47	15	8	7	0	0	0	2	12	
Moorhead State University (MN)	47	3	3	0	0	0	4	2	12	
University of Missouri-Kansas City	47	6	6	0	0	0	2	3	12	
University of South Dakota	47	9	9	0	0	0	3	1	9	
University of Texas-Dallas	47	5	4	1	0	2	2	2	5	
Pacific Lutheran University (WA)	47	11	8	3	0	0	1	1	12	
Adelphi University (NY)	46	7	6	1	0	0	0	0	9	
Albright College (PA)	46	9	8	1	0	0	1	0	20	
Shippensburg University of Pennsylvania	46	9	9	0	0	0	5	2	5	
University of Richmond (VA)	46	11	10	1	0	0	0	1	13	
State University of Florida-unknown branch	46	9	8	1	0	1	0	2	16	
Murray State University (KY)	46	8	7	1	0	2	0	2	16	
Boise State University (ID)	46	10	7	3	0	2	1	0	6	
Hampshire College (MA)	45	4	2	2	0	1	3	2	14	
Cooper Union (NY)	45	3	2	1	0	0	4	3	0	
University of Detroit Mercy (MI)	45	6	6	0	0	0	1	1	5	
University of Alabama-Birmingham	45	10	4	6	0	1	2	1	11	
Philadelphia College of Pharmacy & Science	44	13	13	0	0	0	0	0	31	
Spelman College (GA)	43	3	3	0	0	0	0	0	6	
University of Alaska	43	13	7	6	0	3	4	1	11	
Hobart & William Smith College (NY)	42	3	3	0	0	2	1	0	15	
Gannon University (PA)	42	18	18	0	0	0	0	0	11	
Northern Michigan University	42	3	3	0	0	1	2	0	11	
Northeast Missouri State University	42	12	11	1	0	0	4	2	9	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Loyola College in Maryland	9	7	4	0	0	1	0	3	74	
College of Charleston (SC)	7	8	3	0	1	1	0	1	87	
Montclair State University (NJ)	19	4	2	0	0	1	0	1	129	
DePaul University (IL)	17	6	0	0	0	0	0	0	92	
New College/University of South Florida	8	10	0	0	0	0	0	0	62	
University of Mississippi-Oxford	11	3	12	2	2	4	3	1	144	
Radcliffe College (MA)	11	13	1	0	0	0	0	1	108	
State University of New York-Brockport	14	14	0	0	0	0	0	0	112	
Stevens Institute of Technology (NJ)	2	0	23	3	1	9	1	9	51	
DePauw University (IN)	16	6	1	0	1	0	0	0	104	
University of Nebraska-Omaha	4	12	5	0	2	1	1	1	108	
Stephen F. Austin State University	9	8	0	0	0	0	0	0	133	
State University of New York-Cortland	14	12	2	0	0	0	0	2	137	
Wabash College (IN)	6	2	0	0	0	0	0	0	67	
University of Minnesota-Duluth	8	5	1	0	0	0	0	1	78	
Western Kentucky University	5	4	2	0	0	0	0	1	127	
Lewis and Clark College (OR)	13	7	1	0	0	0	0	1	86	
Fairfield University (CT)	19	3	0	0	0	0	0	0	64	
Canisius College (NY)	9	4	0	0	0	0	0	0	77	
Skidmore College (NY)	15	13	0	0	0	0	0	0	83	
State University of New York-New Paltz	18	13	1	0	0	0	0	1	96	
Ohio Wesleyan University	11	9	2	0	1	1	0	0	87	
Butler University (IN)	13	7	1	0	0	0	1	0	70	
Southern Illinois University-Edwardsville	4	9	5	0	3	1	0	1	103	
Moorehead State University (MN)	14	9	3	0	0	2	0	1	103	
University of Missouri-Kansas City	13	8	3	0	0	2	1	0	113	
University of South Dakota	19	6	0	0	0	0	0	0	101	
University of Texas-Dallas	20	9	2	0	1	1	0	0	72	
Pacific Lutheran University (WA)	5	13	4	0	0	1	0	3	96	
Adelphi University (NY)	23	7	0	0	0	0	0	0	110	
Albright College (PA)	13	3	0	0	0	0	0	0	64	
Shippensburg University of Pennsylvania	12	9	4	0	1	1	0	2	100	
University of Richmond (VA)	13	8	0	0	0	0	0	0	86	
State University of Florida-unknown branch	10	6	2	0	0	0	0	2	112	
Murray State University (KY)	5	9	4	1	1	1	0	1	119	
Boise State University (ID)	12	12	3	0	0	1	0	2	91	
Hampshire College (MA)	11	10	0	0	0	0	0	0	71	
Cooper Union (NY)	0	1	34	11	2	7	8	6	51	
University of Detroit Mercy (MI)	14	10	8	1	1	2	2	2	91	
University of Alabama-Birmingham	9	7	4	0	0	1	0	3	104	
Philadelphia College of Pharmacy & Science	0	0	0	0	0	0	0	0	51	
Spelman College (GA)	20	10	4	1	0	1	0	2	80	
University of Alaska	3	4	4	0	2	0	0	2	56	
Hobart & William Smith College (NY)	11	9	1	1	0	0	0	0	79	
Gannon University (PA)	9	2	2	0	0	1	1	0	69	
Northern Michigan University	18	6	1	1	0	0	0	0	93	
Northeast Missouri State University	6	7	2	0	0	0	0	2	106	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
University of Central Oklahoma	42	2	0	2	0	1	3	1	11	
Andrews University (MI)	41	16	12	4	0	1	1	2	14	
Southeast Missouri State University	41	6	6	0	0	2	0	1	14	
East Tennessee State University	41	10	6	4	0	1	0	0	18	
Northeast Louisiana University	41	8	4	4	0	1	4	2	8	
University of the Pacific (CA)	41	3	2	1	0	2	2	1	9	
State University of New York-Purchase	40	12	11	1	0	1	0	1	10	
Drew University (NJ)	40	5	3	2	0	1	1	2	11	
University of Wisconsin-La Crosse	40	7	6	1	0	0	3	3	12	
University of St. Thomas (MN)	40	4	3	1	0	0	1	2	10	
Marshall University (WV)	40	5	5	0	0	3	1	1	7	
Eckerd College (FL)	40	4	4	0	0	0	0	1	14	
Eastern Kentucky University	40	5	5	0	0	1	1	2	14	
Southwest Texas State University	40	5	5	0	0	0	4	1	13	
Eastern Washington University	40	7	4	3	0	1	1	0	8	
Hiram College (OH)	39	6	5	1	0	0	0	0	23	
University of Michigan-Dearborn	39	11	9	2	0	0	1	0	6	
Concordia College-Moorhead (MN)	39	5	5	0	0	0	4	0	9	
South Dakota School of Mines & Technology	39	9	4	4	1	5	2	2	0	
Appalachian State University (NC)	39	3	2	1	0	5	0	2	8	
University of Tennessee-Chattanooga	39	7	5	2	0	0	0	0	7	
Hamline University (MN)	38	14	11	3	0	0	0	0	9	
Mary Washington College (VA)	38	3	3	0	0	2	1	2	11	
University of North Carolina-Wilmington	38	7	5	2	0	3	0	0	18	
University of South Alabama	38	5	4	1	0	1	4	0	11	
University of Dallas (TX)	38	10	3	7	0	0	4	1	12	
University of Texas-San Antonio	38	9	7	2	0	2	2	0	12	
Fort Lewis College (CO)	38	19	18	1	0	0	0	0	8	
California State University-Carson	38	5	3	2	0	0	0	1	3	
Grove City College (PA)	37	10	9	1	0	1	3	2	7	
Goshen College (IN)	37	8	4	4	0	0	1	0	13	
Grand Valley State University (MI)	37	2	1	1	0	3	2	2	9	
Loyola University (LA)	37	1	0	1	0	0	2	1	6	
Abilene Christian University (TX)	37	11	8	3	0	0	2	4	7	
Metropolitan State College (CO)	37	5	3	2	0	1	1	1	5	
Le Moyne College (NY)	36	5	5	0	0	0	0	0	13	
Long Island University-Southampton Campus	36	4	4	0	0	5	0	0	19	
Ursinus College (PA)	36	11	8	3	0	0	0	0	11	
Indiana State University	36	3	3	0	0	1	2	2	6	
Northeastern Illinois University	36	6	5	1	0	2	1	2	6	
Alma College (MI)	36	1	1	0	0	0	1	0	18	
Ripon College (WI)	36	10	9	1	0	0	0	0	16	
Bethel College (MN)	36	7	4	3	0	0	1	2	4	
Tuskegee University (AL)	36	1	1	0	0	0	0	0	25	
Southern Oregon State College	36	9	6	2	1	0	2	1	13	
Pitzer College (CA)	36	0	0	0	0	0	0	0	5	
Siena College (NY)	35	5	4	1	0	0	3	0	16	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
University of Central Oklahoma	14	6	4	0	1	1	0	2	117	
Andrews University (MI)	3	1	3	0	0	2	0	1	81	
Southeast Missouri State University	11	7	0	0	0	0	0	0	131	
East Tennessee State University	5	7	0	0	0	0	0	0	128	
Northeast Louisiana University	10	6	2	0	0	1	0	1	113	
University of the Pacific (CA)	13	7	4	0	0	3	1	0	91	
State University of New York-Purchase	11	5	0	0	0	0	0	0	70	
Drew University (NJ)	9	10	1	0	1	0	0	0	64	
University of Wisconsin-La Crosse	11	3	1	0	1	0	0	0	104	
University of St. Thomas (MN)	12	11	0	0	0	0	0	0	59	
Marshall University (WV)	10	12	1	0	0	0	0	1	104	
Eckerd College (FL)	12	8	1	0	0	0	0	1	61	
Eastern Kentucky University	9	7	1	0	0	1	0	0	86	
Southwest Texas State University	11	6	0	0	0	0	0	0	128	
Eastern Washington University	12	11	0	0	0	0	0	0	93	
Hiram College (OH)	7	3	0	0	0	0	0	0	63	
University of Michigan-Dearborn	9	5	7	0	0	2	2	3	44	
Concordia College-Moorhead (MN)	14	6	1	0	0	0	0	1	81	
South Dakota School of Mines & Technology	0	0	21	1	4	3	5	8	41	
Appalachian State University (NC)	7	13	1	0	0	0	0	1	130	
University of Tennessee-Chattanooga	9	9	7	0	0	5	1	1	72	
Hamline University (MN)	7	7	1	1	0	0	0	0	55	
Mary Washington College (VA)	11	6	2	1	0	0	0	1	70	
University of North Carolina-Wilmington	7	3	0	0	0	0	0	0	46	
University of South Alabama	8	3	6	0	0	3	1	2	78	
University of Dallas (TX)	3	7	1	0	0	1	0	0	59	
University of Texas-San Antonio	9	3	1	0	0	0	1	0	55	
Fort Lewis College (CO)	5	6	0	0	0	0	0	0	50	
California State University-Carson	17	12	0	0	0	0	0	0	53	
Grove City College (PA)	7	1	6	1	0	0	0	5	63	
Goshen College (IN)	5	8	2	0	1	0	0	1	80	
Grand Valley State University (MI)	11	8	0	0	0	0	0	0	68	
Loyola University (LA)	14	10	3	0	0	2	0	1	72	
Abilene Christian University (TX)	6	6	1	1	0	0	0	0	98	
Metropolitan State College (CO)	12	11	1	0	0	1	0	0	69	
Le Moyne College (NY)	9	8	1	0	0	0	0	1	58	
Long Island University-Southampton Campus	6	1	1	0	0	0	0	1	40	
Ursinus College (PA)	9	2	3	0	0	0	0	3	63	
Indiana State University	13	6	3	0	0	0	1	2	136	
Northeastern Illinois University	9	10	0	0	0	0	0	0	84	
Alma College (MI)	7	8	1	0	0	0	0	1	59	
Ripon College (WI)	4	4	2	0	0	0	0	2	53	
Bethel College (MN)	14	6	2	0	0	0	1	1	57	
Tuskegee University (AL)	1	5	4	0	0	0	3	1	85	
Southern Oregon State College	3	7	1	0	0	0	0	1	56	
Pitzer College (CA)	21	10	0	0	0	0	0	0	55	
Siena College (NY)	4	5	2	0	0	1	0	1	50	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Richard Stockton College of NJ	35	14	9	4	1	5	0	0	6	
Seton Hall University (NJ)	35	8	6	2	0	0	1	0	1	
Bloomsburg University of Pennsylvania	35	3	3	0	0	0	2	2	6	
Duquesne University (PA)	35	4	3	1	0	0	0	2	9	
Carroll College (WI)	35	6	5	1	0	0	1	0	12	
Northwest Missouri State University	35	7	6	1	0	0	0	1	13	
University of San Francisco (CA)	35	7	5	2	0	0	0	2	7	
Southern Connecticut State University	34	7	7	0	0	0	0	0	7	
Washington & Jefferson (PA)	34	9	8	1	0	2	0	0	11	
Baldwin-Wallace College (OH)	34	5	5	0	0	0	4	0	7	
Albion College (MI)	34	10	8	2	0	3	1	0	10	
St. Norbert College (WI)	34	12	11	1	0	0	1	1	7	
Middle Tennessee State University	34	4	3	1	0	0	1	1	10	
University of the South (TN)	34	4	4	0	0	2	3	2	11	
University of Nevada-Las Vegas	34	4	2	2	0	3	0	3	6	
Gonzaga University (WA)	34	3	2	1	0	0	1	1	8	
West Chester University of Pennsylvania	33	8	7	1	0	1	0	2	7	
East Carolina University (NC)	33	7	5	2	0	2	0	1	5	
Weber State University (UT)	33	5	4	1	0	2	0	0	8	
Moravian College (PA)	32	16	4	12	0	1	1	0	4	
Illinois Wesleyan University	32	8	7	1	0	0	1	0	13	
Harding University (AR)	32	3	2	1	0	0	2	1	5	
Oral Roberts University (OK)	32	2	2	0	0	0	0	2	14	
Walla Walla College (WA)	32	5	2	3	0	1	0	1	13	
University of California, School of Medicine-La Jolla	32	9	6	3	0	2	0	1	11	
University of Redlands (CA)	32	1	0	1	0	2	0	0	8	
Lebanon Valley College (PA)	31	16	16	0	0	2	0	0	7	
Slippery Rock University (PA)	31	3	2	1	0	1	1	3	11	
GMI Engineering & Management Institute (MI)	31	3	0	3	0	0	0	1	0	
University of Michigan-Flint College	31	13	9	4	0	0	0	2	7	
College of St. Benedict (MN)	31	6	4	2	0	0	1	0	9	
Coe College (IA)	31	6	5	1	0	1	2	0	5	
Pittsburg State University (KS)	31	9	7	2	0	1	3	1	7	
Centre College (KY)	31	8	7	1	0	1	2	0	12	
University of Alabama-Huntsville	31	4	1	3	0	0	3	2	7	
University of Wisconsin-Platteville	30	1	0	1	0	3	1	0	11	
Birmingham-Southern College (AL)	30	5	4	1	0	0	0	1	5	
Ithaca College (NY)	29	11	11	0	0	0	1	1	4	
Trenton State College (NJ)	29	4	2	2	0	1	0	0	9	
Hanover College (IN)	29	9	4	5	0	1	0	0	8	
University of Wisconsin-Whitewater	29	4	3	1	0	1	0	0	3	
Bemidji State University (MN)	29	6	4	2	0	3	0	0	11	
Western Maryland College	29	5	4	1	0	2	0	1	9	
Guilford College (NC)	29	3	1	2	0	3	2	0	7	
Mercer University (GA)	29	4	3	1	0	0	3	0	4	
Stetson University (FL)	29	6	4	2	0	0	0	0	5	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Richard Stockton College of NJ	5	4	1	0	0	1	0	0	51	
Seton Hall University (NJ)	20	4	1	0	0	0	0	1	82	
Bloomsburg University of Pennsylvania	14	7	1	0	0	0	0	1	95	
Duquesne University (PA)	11	8	1	0	0	0	0	1	121	
Carroll College (WI)	11	5	0	0	0	0	0	0	54	
Northwest Missouri State University	7	5	2	0	0	1	0	1	83	
University of San Francisco (CA)	14	4	1	0	0	0	0	1	100	
Southern Connecticut State University	14	6	0	0	0	0	0	0	82	
Washington & Jefferson (PA)	8	2	2	0	0	0	0	2	43	
Baldwin-Wallace College (OH)	13	2	3	1	0	1	1	0	78	
Albion College (MI)	2	3	5	2	0	3	0	0	52	
St. Norbert College (WI)	10	1	2	0	0	1	0	1	44	
Middle Tennessee State University	7	8	3	0	1	0	0	2	99	
University of the South (TN)	6	6	0	0	0	0	0	0	64	
University of Nevada-Las Vegas	12	4	2	0	0	1	1	0	59	
Gonzaga University (WA)	9	6	6	1	0	1	1	3	65	
West Chester University of Pennsylvania	9	6	0	0	0	0	0	0	122	
East Carolina University (NC)	8	10	0	0	0	0	0	0	126	
Weber State University (UT)	8	9	1	0	0	1	0	0	59	
Moravian College (PA)	5	4	1	0	0	0	0	1	49	
Illinois Wesleyan University	6	3	1	0	0	0	0	1	76	
Harding University (AR)	15	5	1	0	1	0	0	0	104	
Oral Roberts University (OK)	13	0	1	1	0	0	0	0	64	
Walla Walla College (WA)	5	2	5	0	1	4	0	0	63	
University of California, School of Medicine-La Jolla	3	2	4	1	1	1	0	1	36	
University of Redlands (CA)	10	9	2	0	1	0	0	1	82	
Lebanon Valley College (PA)	5	1	0	0	0	0	0	0	47	
Slippery Rock University (PA)	7	5	0	0	0	0	0	0	98	
GMI Engineering & Management Institute (MI)	1	1	25	1	0	6	6	12	36	
University of Michigan-Flint College	6	3	0	0	0	0	0	0	45	
College of St. Benedict (MN)	12	3	0	0	0	0	0	0	50	
Coe College (IA)	5	10	2	0	0	0	0	2	48	
Pittsburg State University (KS)	5	1	4	1	0	1	1	1	83	
Centre College (KY)	5	1	2	0	1	0	0	1	53	
University of Alabama-Huntsville	3	4	8	1	0	1	2	4	52	
University of Wisconsin-Platteville	1	3	10	0	2	1	4	3	50	
Birmingham-Southern College (AL)	15	1	3	0	0	1	0	2	60	
Ithaca College (NY)	6	5	1	0	0	1	0	0	90	
Trenton State College (NJ)	8	6	1	1	0	0	0	0	109	
Hanover College (IN)	10	1	0	0	0	0	0	0	58	
University of Wisconsin-Whitewater	15	6	0	0	0	0	0	0	74	
Bemidji State University (MN)	3	5	1	0	0	1	0	0	67	
Western Maryland College	6	4	2	0	0	0	0	2	44	
Guilford College (NC)	8	5	1	0	0	1	0	0	61	
Mercer University (GA)	13	5	0	0	0	0	0	0	68	
Stetson University (FL)	10	7	1	0	0	0	0	1	79	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Berea College (KY)	29	6	3	3	0	0	2	0	10	
Arkansas State University	29	4	4	0	0	0	3	1	8	
Central Washington University	29	2	2	0	0	2	3	1	5	
University of Bridgeport (CT)	28	5	0	5	0	0	0	3	3	
University of Hartford (CT)	28	7	2	5	0	0	1	1	3	
Herbert H. Lehman College, CUNY	28	0	0	0	0	2	3	0	5	
Augustana College (SD)	28	7	7	0	0	0	0	1	9	
Washington and Lee University (VA)	28	7	5	1	1	2	0	0	7	
Lamar University (TX)	28	4	2	2	0	1	2	2	5	
Sam Houston State University (TX)	28	5	4	1	0	2	0	0	11	
Seattle University (WA)	28	8	6	2	0	0	1	0	4	
Willamette University (OR)	28	10	8	2	0	2	1	2	6	
California State University-Stanislaus	28	10	9	1	0	1	0	0	6	
SUNY-Empire State College	27	0	0	0	0	0	0	3	1	
Wilkes University (PA)	27	4	3	1	0	1	3	2	7	
Manchester College (IN)	27	4	4	0	0	0	2	0	7	
St. Mary's College (IN)	27	7	7	0	0	0	0	0	10	
Saginaw Valley State University (MI)	27	11	10	1	0	0	0	0	4	
University of Minnesota-Morris	27	11	9	2	0	1	0	1	6	
University of Nebraska-Kearney	27	4	3	1	0	1	0	0	11	
Frostburg State University (MD)	27	7	5	1	1	1	2	1	10	
Goucher College (MD)	27	3	3	0	0	2	2	0	6	
Alabama A&M University	27	3	0	3	0	0	1	0	9	
Southern University & A&M College (LA)	27	2	2	0	0	0	1	0	5	
St. Anselm College (NH)	26	5	5	0	0	0	0	0	10	
Rhode Island College	26	5	5	0	0	0	0	0	4	
Kutztown University (PA)	26	5	4	1	0	1	1	0	8	
Central College (IA)	26	6	3	3	0	0	1	2	7	
Cornell College (IA)	26	8	8	0	0	2	1	1	5	
Nebraska Wesleyan University	26	4	3	1	0	0	1	0	8	
St. John's College (MD)	26	3	0	3	0	1	4	2	3	
Randolph-Macon Women's College (VA)	26	3	3	0	0	0	0	0	5	
University of Tennessee-Martin	26	4	3	1	0	0	0	1	18	
Southwestern Oklahoma State University	26	10	8	2	0	1	0	0	4	
Austin College (TX)	26	1	1	0	0	1	1	0	11	
Sarah Lawrence College (NY)	25	0	0	0	0	0	0	0	4	
St. Vincent College & Seminary (PA)	25	6	3	3	0	0	3	0	4	
Ohio Northern University	25	6	6	0	0	0	1	0	8	
Central Missouri State University	25	6	5	1	0	0	0	1	9	
Emporia State University (KS)	25	5	3	2	0	0	1	1	8	
Virginia Military Institute	25	5	3	2	0	0	0	0	1	
North Carolina A&T State University	25	1	1	0	0	0	0	0	3	
University of Arkansas-Little Rock	25	1	1	0	0	0	2	1	8	
Angelo State University (TX)	25	8	4	4	0	1	0	4	9	
East Texas State University	25	4	2	2	0	3	1	2	4	
Seattle Pacific University (WA)	25	5	3	2	0	1	0	0	8	
University of San Diego (CA)	25	2	2	0	0	0	0	0	7	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Berea College (KY)	1	9	1	0	0	0	0	1	60	
Arkansas State University	6	5	2	0	1	1	0	0	114	
Central Washington University	7	8	1	0	0	0	0	1	73	
University of Bridgeport (CT)	6	4	7	0	0	3	1	3	59	
University of Hartford (CT)	11	1	4	0	1	1	2	0	74	
Herbert H. Lehman College, CUNY	15	3	0	0	0	0	0	0	70	
Augustana College (SD)	3	5	3	0	1	0	0	2	72	
Washington and Lee University (VA)	2	7	3	0	0	0	1	2	52	
Lamar University (TX)	7	1	6	0	1	1	2	2	75	
Sam Houston State University (TX)	5	5	0	0	0	0	0	0	91	
Seattle University (WA)	9	1	5	0	0	2	1	2	59	
Willamette University (OR)	2	4	1	0	0	0	0	1	56	
California State University-Stanislaus	7	4	0	0	0	0	0	0	52	
SUNY-Empire State College	13	10	0	0	0	0	0	0	58	
Wilkes University (PA)	4	2	4	0	0	2	0	2	68	
Manchester College (IN)	4	8	2	0	0	2	0	0	57	
St. Mary's College (IN)	6	4	0	0	0	0	0	0	55	
Saginaw Valley State University (MI)	1	10	1	0	0	0	0	1	34	
University of Minnesota-Morris	7	1	0	0	0	0	0	0	37	
University of Nebraska-Kearney	3	5	3	0	1	0	0	2	87	
Frostburg State University (MD)	2	4	0	0	0	0	0	0	58	
Goucher College (MD)	4	9	1	0	0	0	0	1	60	
Alabama A&M University	1	11	2	0	0	0	0	2	47	
Southern University & A&M College (LA)	4	7	8	0	2	4	1	1	75	
St. Anselm College (NH)	4	6	1	0	0	1	0	0	49	
Rhode Island College	13	4	0	0	0	0	0	0	69	
Kutztown University (PA)	5	4	2	0	0	1	0	1	82	
Central College (IA)	3	7	0	0	0	0	0	0	45	
Cornell College (IA)	3	5	1	0	1	0	0	0	45	
Nebraska Wesleyan University	5	7	1	0	0	0	0	1	48	
St. John's College (MD)	3	10	0	0	0	0	0	0	50	
Randolph-Macon Women's College (VA)	14	3	1	0	0	0	0	1	40	
University of Tennessee-Martin	2	0	1	0	0	0	0	1	64	
Southwestern Oklahoma State University	7	2	2	0	0	1	0	1	70	
Austin College (TX)	8	3	1	0	0	0	0	1	55	
Sarah Lawrence College (NY)	14	7	0	0	0	0	0	0	57	
St. Vincent College & Seminary (PA)	7	5	0	0	0	0	0	0	36	
Ohio Northern University	3	0	7	0	3	0	0	4	44	
Central Missouri State University	5	3	1	0	0	1	0	0	100	
Emporia State University (KS)	7	3	0	0	0	0	0	0	100	
Virginia Military Institute	0	4	15	0	6	2	2	5	34	
North Carolina A&T State University	6	1	14	0	2	5	3	4	67	
University of Arkansas-Little Rock	8	4	1	0	0	0	0	1	48	
Angelo State University (TX)	1	2	0	0	0	0	0	0	52	
East Texas State University	6	2	3	0	0	2	0	1	109	
Seattle Pacific University (WA)	5	5	1	0	0	1	0	0	62	
University of San Diego (CA)	11	5	0	0	0	0	0	0	50	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	
		Total	chemistry	Physics & astronomy	Other physical sciences				
Bennington College (VT)	24	0	0	0	0	0	0	1	5
Gordon College (MA)	24	6	6	0	0	1	1	0	4
Houghton College (NY)	24	3	3	0	0	0	3	0	9
New Jersey Institute of Technology	24	1	0	1	0	2	1	2	0
Rider University (NJ)	24	5	5	0	0	1	0	0	11
Muskingum College (OH)	24	7	7	0	0	1	1	1	6
St. Mary's College of Minnesota	24	5	4	1	0	0	1	0	10
Hastings College (NE)	24	6	3	3	0	0	1	0	8
Randolph-Macon College (VA)	24	4	4	0	0	0	0	1	6
Bob Jones University (SC)	24	6	5	1	0	0	5	1	6
University of West Florida	24	7	7	0	0	0	2	0	6
Northern Kentucky University	24	6	5	1	0	0	1	0	9
Jacksonville State University (AL)	24	2	2	0	0	0	0	0	6
Nicholls State University (LA)	24	3	2	1	0	0	1	3	8
University of Southern Colorado	24	3	2	1	0	1	1	2	7
Mills College (CA)	24	1	1	0	0	0	1	0	4
Point Loma Nazarene College (CA)	24	11	9	2	0	1	1	0	7
Hartwick College (NY)	23	5	5	0	0	2	0	0	10
Pace University (NY)	23	5	5	0	0	0	1	0	5
St. Peter's College (NJ)	23	4	3	1	0	0	1	2	4
Delaware Valley College (PA)	23	3	3	0	0	0	0	0	20
Marietta College (OH)	23	4	3	1	0	4	0	0	6
St. Xavier University (IL)	23	3	3	0	0	0	4	0	5
Washburn University of Topeka (KS)	23	5	2	3	0	0	0	0	8
Radford University (VA)	23	1	1	0	0	2	1	0	5
Transylvania University (KY)	23	5	5	0	0	0	1	0	5
University Of Central Arkansas	23	5	1	4	0	0	2	2	6
Tarleton State University (TX)	23	6	1	5	0	0	0	1	13
West Texas A&M University	23	0	0	0	0	1	1	0	10
California State University-San Bernardino	23	2	2	0	0	0	1	0	2
Wheaton College (MA)	22	3	3	0	0	1	1	0	8
Central Connecticut State University	22	8	5	3	0	0	1	0	4
St. John Fisher College (NY)	22	7	4	3	0	0	1	0	8
Rowan College of New Jersey	22	2	1	1	0	1	0	0	4
Kean College of New Jersey	22	7	6	1	0	2	0	0	2
Edinboro University of Pennsylvania	22	5	3	2	0	1	1	1	6
Kings College (PA)	22	12	11	1	0	0	1	0	4
Lincoln University (PA)	22	5	4	1	0	1	0	0	5
Anderson University (IN)	22	2	1	1	0	0	0	1	5
Elmhurst College (IL)	22	7	6	1	0	0	0	1	3
Roosevelt University (IL)	22	1	1	0	0	0	0	2	2
University of District of Columbia	22	6	5	1	0	0	0	1	1
Wofford College (SC)	22	7	6	1	0	1	2	0	7
Fisk University (TN)	22	4	4	0	0	0	0	1	11
Arkansas Technical University	22	5	5	0	0	1	0	0	10
Midwestern State University (TX)	22	6	5	1	0	2	0	2	7
Stonehill College (MA)	21	3	2	1	0	1	0	0	7

See footnote at end of table

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
Bennington College (VT)	12	6	0	0	0	0	0	53	
Gordon College (MA)	6	6	0	0	0	0	0	46	
Houghton College (NY)	5	4	0	0	0	0	0	56	
New Jersey Institute of Technology	0	0	18	2	2	6	1	32	
Rider University (NJ)	3	3	1	0	0	0	0	61	
Muskingum College (OH)	5	3	0	0	0	0	0	44	
St. Mary's College of Minnesota	6	1	1	0	0	0	0	43	
Hastings College (NE)	3	2	4	0	2	1	0	38	
Randolph-Macon College (VA)	8	5	0	0	0	0	0	34	
Bob Jones University (SC)	2	1	3	0	0	2	0	73	
University of West Florida	3	4	2	0	0	0	1	55	
Northern Kentucky University	5	3	0	0	0	0	0	40	
Jacksonville State University (AL)	13	2	1	0	0	0	0	77	
Nicholls State University (LA)	9	0	0	0	0	0	0	49	
University of Southern Colorado	7	2	1	0	0	0	0	44	
Mills College (CA)	14	4	0	0	0	0	0	49	
Point Loma Nazarene College (CA)	3	1	0	0	0	0	0	41	
Hartwick College (NY)	1	4	1	0	0	0	0	37	
Pace University (NY)	7	4	1	0	0	0	0	48	
St. Peter's College (NJ)	9	2	1	0	0	0	1	42	
Delaware Valley College (PA)	0	0	0	0	0	0	0	30	
Marietta College (OH)	3	4	2	1	0	1	0	38	
St. Xavier University (IL)	7	4	0	0	0	0	0	41	
Washburn University of Topeka (KS)	5	5	0	0	0	0	0	71	
Radford University (VA)	5	8	1	0	0	0	0	73	
Transylvania University (KY)	12	0	0	0	0	0	0	34	
University Of Central Arkansas	4	2	2	0	0	2	0	79	
Tarleton State University (TX)	3	0	0	0	0	0	0	44	
West Texas A&M University	5	4	2	0	0	0	0	77	
California State University-San Bernardino	9	9	0	0	0	0	0	46	
Wheaton College (MA)	4	3	2	0	0	0	0	37	
Central Connecticut State University	3	6	0	0	0	0	0	68	
St. John Fisher College (NY)	3	3	0	0	0	0	0	31	
Rowan College of New Jersey	10	5	0	0	0	0	0	89	
Kean College of New Jersey	7	4	0	0	0	0	0	59	
Edinboro University of Pennsylvania	4	4	0	0	0	0	0	80	
Kings College (PA)	3	2	0	0	0	0	0	39	
Lincoln University (PA)	5	5	1	0	0	1	0	30	
Anderson University (IN)	10	4	0	0	0	0	0	55	
Elmhurst College (IL)	5	4	2	0	0	1	0	58	
Roosevelt University (IL)	7	10	0	0	0	0	0	58	
University of District of Columbia	4	5	5	0	1	1	3	57	
Wofford College (SC)	2	2	1	0	0	1	0	39	
Fisk University (TN)	3	3	0	0	0	0	0	49	
Arkansas Technical University	6	0	0	0	0	0	0	46	
Midwestern State University (TX)	2	3	0	0	0	0	0	44	
Stonehill College (MA)	7	3	0	0	0	0	0	35	

See footnote at end of table

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	
		Total	chemistry	Physics & astronomy	Other physical sciences				
Yeshiva University (NY)	21	2	1	1	0	0	2	2	4
Clarion University of Pennsylvania	21	7	5	2	0	0	2	0	8
East Stroudsburg University of Pennsylvania	21	6	5	1	0	0	0	0	9
Elizabethtown College (PA)	21	9	8	1	0	0	0	1	2
University of Evansville (IN)	21	7	5	2	0	0	0	0	3
Taylor University (IN)	21	1	1	0	0	0	0	1	6
University of Wisconsin-Parkside	21	9	5	4	0	0	0	0	4
Wartburg College (IA)	21	5	5	0	0	0	0	0	10
The Citadel (SC)	21	3	3	0	0	0	0	0	2
Agnes Scott College (GA)	21	2	2	0	0	0	2	0	4
Georgia Southern University	21	1	1	0	0	0	0	0	5
Jacksonville University (FL)	21	2	0	2	0	1	0	0	9
Thomas More College (KY)	21	5	2	3	0	0	0	0	12
Tennessee State University	21	1	0	1	0	1	1	0	6
Southeastern Louisiana University	21	4	3	1	0	0	0	1	9
Texas Woman's University	21	1	1	0	0	0	0	0	0
University of Colorado-Denver	21	1	1	0	0	0	2	0	4
Loma Linda University (CA)	21	1	0	1	0	0	0	0	8
University of Southern Maine	20	0	0	0	0	2	1	0	2
St. Michael's College (VT)	20	3	2	1	0	0	0	0	11
Bard College (NY)	20	4	3	1	0	0	0	0	4
College of Staten Island-CUNY	20	2	2	0	0	0	0	1	2
St. Bonaventure University (NY)	20	1	1	0	0	0	0	0	5
Rutgers State University-Newark (NJ)	20	8	7	1	0	1	0	0	3
William Paterson College of NJ	20	3	2	1	0	1	0	0	5
University of Wisconsin-Green Bay	20	2	2	0	0	1	1	0	7
Augsburg College (MN)	20	6	4	2	0	1	0	1	2
Hampton University (VA)	20	1	1	0	0	1	0	0	5
North Carolina Central University	20	4	3	1	0	0	0	0	4
Morehouse College (GA)	20	1	1	0	0	0	0	1	4
Carson-Newman College (TN)	20	1	1	0	0	0	1	0	5
Spring Hill College (AL)	20	8	8	0	0	0	0	0	4
Centenary College (LA)	20	1	1	0	0	0	1	1	2
Texas Lutheran College	20	12	12	0	0	0	0	0	5
Albertson College (ID)	20	1	1	0	0	0	4	1	6
Chapman University (CA)	20	0	0	0	0	1	0	0	0
Westmont College (CA)	20	4	1	3	0	0	1	0	3
Inter American University of Puerto Rico-San German	20	5	5	0	0	1	0	0	2
Dowling College (NY)	19	3	2	1	0	2	1	2	4
Long Island University-C.W. Post (NY)	19	0	0	0	0	0	2	0	5
Niagara University (NY)	19	3	3	0	0	0	0	0	6
Monmouth College (NJ)	19	6	5	1	0	0	0	0	5
Westminster College (PA)	19	3	1	2	0	1	1	1	1
North Central College (IL)	19	1	1	0	0	0	1	1	6
Aquinas College (MI)	19	1	1	0	0	0	0	0	6
Missouri Southern State College	19	4	2	2	0	0	1	2	2

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
Yeshiva University (NY)	6	2	3	0	0	2	0	1	40
Clarion University of Pennsylvania	3	1	0	0	0	0	0	0	74
East Stroudsburg University of Pennsylvania	5	0	1	1	0	0	0	0	75
Elizabethtown College (PA)	6	3	0	0	0	0	0	0	35
University of Evansville (IN)	5	3	3	0	0	1	0	2	63
Taylor University (IN)	11	2	0	0	0	0	0	0	48
University of Wisconsin-Parkside	3	4	1	0	0	0	0	1	34
Wartburg College (IA)	3	1	2	0	0	1	0	1	46
The Citadel (SC)	3	6	7	1	3	0	0	3	45
Agnes Scott College (GA)	9	4	0	0	0	0	0	0	44
Georgia Southern University	4	10	1	0	0	0	0	1	85
Jacksonville University (FL)	4	4	1	0	0	0	0	1	35
Thomas More College (KY)	0	1	3	0	0	2	0	1	29
Tennessee State University	6	1	5	0	1	0	2	2	51
Southeastern Louisiana University	5	2	0	0	0	0	0	0	63
Texas Woman's University	13	7	0	0	0	0	0	0	96
University of Colorado-Denver	5	3	6	0	1	2	0	3	34
Loma Linda University (CA)	12	0	0	0	0	0	0	0	55
University of Southern Maine	7	7	1	0	0	1	0	0	52
St. Michael's College (VT)	4	2	0	0	0	0	0	0	29
Bard College (NY)	6	6	0	0	0	0	0	0	48
College of Staten Island-CUNY	11	2	2	0	0	1	0	1	43
St. Bonaventure University (NY)	9	4	1	0	0	1	0	0	48
Rutgers State University-Newark (NJ)	3	3	2	0	0	0	1	1	31
William Paterson College of NJ	7	4	0	0	0	0	0	0	57
University of Wisconsin-Green Bay	0	8	1	0	1	0	0	0	44
Augsburg College (MN)	3	6	1	1	0	0	0	0	48
Hampton University (VA)	8	5	0	0	0	0	0	0	77
North Carolina Central University	3	9	0	0	0	0	0	0	61
Morehouse College (GA)	7	4	2	0	0	1	0	1	31
Carson-Newman College (TN)	9	3	1	0	0	1	0	0	63
Spring Hill College (AL)	4	3	1	1	0	0	0	0	35
Centenary College (LA)	6	4	1	0	0	0	1	0	31
Texas Lutheran College	3	0	0	0	0	0	0	0	32
Albertson College (ID)	6	2	0	0	0	0	0	0	31
Chapman University (CA)	16	3	0	0	0	0	0	0	41
Westmont College (CA)	7	5	0	0	0	0	0	0	50
Inter American University of Puerto Rico-San German	10	2	0	0	0	0	0	0	42
Dowling College (NY)	3	1	3	2	0	0	0	1	29
Long Island University-C.W. Post (NY)	9	3	0	0	0	0	0	0	41
Niagara University (NY)	6	3	1	0	0	0	1	0	54
Monmouth College (NJ)	2	2	4	0	0	3	0	1	41
Westminster College (PA)	7	5	0	0	0	0	0	0	54
North Central College (IL)	6	4	0	0	0	0	0	0	36
Aquinas College (MI)	8	4	0	0	0	0	0	0	36
Missouri Southern State College	7	3	0	0	0	0	0	0	45

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
Bethel College (KS)	19	0	0	0	0	0	4	2	8	
Fort Hays State University (KS)	19	2	1	1	0	1	1	0	6	
Roanoke College (VA)	19	6	5	1	0	1	2	0	4	
Winthrop University (SC)	19	3	3	0	0	0	0	1	5	
Jackson State University (MS)	19	3	3	0	0	0	0	1	5	
Millsaps College (MS)	19	2	2	0	0	0	0	1	4	
Mississippi College	19	4	2	2	0	0	1	2	5	
Whitworth College (WA)	19	5	4	1	0	0	0	0	5	
Whittier College (CA)	19	0	0	0	0	3	0	0	3	
Pontifical Catholic University-Puerto Rico	19	3	3	0	0	0	0	0	7	
Manhattanville College (NY)	18	2	2	0	0	0	0	0	3	
SUNY-College at Buffalo	18	0	0	0	0	0	0	0	3	
Otterbein College (OH)	18	1	1	0	0	0	0	0	5	
Lake Forest College (IL)	18	8	6	2	0	0	0	0	1	
Monmouth College (IL)	18	3	3	0	0	1	0	1	9	
Winona State University (MN)	18	4	4	0	0	0	1	1	4	
St. Mary's College of Maryland	18	4	3	1	0	2	1	1	4	
Western Carolina University (NC)	18	4	3	1	0	1	1	0	6	
Northwestern State University (LA)	18	0	0	0	0	0	3	2	4	
Scripps College (CA)	18	0	0	0	0	0	0	0	2	
Pepperdine University (CA)	18	0	0	0	0	0	0	0	5	
York College-City University of NY	17	4	4	0	0	0	1	0	4	
Wagner College (NY)	17	2	2	0	0	0	0	0	6	
Ramapo College of New Jersey	17	1	1	0	0	0	1	0	6	
Mansfield University of Pennsylvania	17	4	2	2	0	0	2	0	3	
Illinois Benedictine College	17	9	9	0	0	0	1	2	5	
University of Maryland-Baltimore	17	1	1	0	0	0	0	0	10	
University of North Carolina-Asheville	17	7	4	3	0	0	1	0	2	
University of Tampa (FL)	17	1	1	0	0	0	0	0	7	
Austin Peay State University (TN)	17	6	3	3	0	0	0	0	5	
University of Houston-Clear Lake	17	2	1	1	0	0	0	2	2	
Texas A&M University-Kingsville	17	3	2	1	0	1	0	2	2	
University of Texas-Pan American										
University-Edinburg	17	2	2	0	0	0	1	0	4	
University of Portland (OR)	17	3	1	2	0	1	0	1	4	
Azusa Pacific University (CA)	17	1	1	0	0	0	0	0	3	
Biola University (CA)	17	1	1	0	0	0	2	0	0	
Pacific Union College (CA)	17	1	0	1	0	0	3	0	2	
Assumption College (MA)	16	3	3	0	0	0	0	1	2	
Eastern Nazarene College (MA)	16	8	4	4	0	0	2	0	4	
Simmons College (MA)	16	1	1	0	0	1	0	1	7	
U.S. Coast Guard Academy (CT)	16	0	0	0	0	2	2	1	1	
Western Connecticut State University	16	3	3	0	0	1	0	0	5	
Nazareth College of Rochester (NY)	16	1	1	0	0	0	0	0	4	
Wells College (NY)	16	1	0	1	0	0	0	0	7	
Susquehanna University (PA)	16	5	5	0	0	0	1	0	3	
Capital University (OH)	16	2	2	0	0	0	1	1	3	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
Bethel College (KS)	1	4	0	0	0	0	0	36	
Fort Hays State University (KS)	4	5	0	0	0	0	0	62	
Roanoke College (VA)	1	5	0	0	0	0	0	31	
Winthrop University (SC)	6	4	0	0	0	0	0	66	
Jackson State University (MS)	4	5	1	0	0	1	0	60	
Millsaps College (MS)	7	5	0	0	0	0	0	47	
Mississippi College	3	3	1	0	0	1	0	98	
Whitworth College (WA)	6	2	1	0	0	1	0	49	
Whittier College (CA)	10	3	0	0	0	0	0	36	
Pontifical Catholic University-Puerto Rico	7	1	1	0	0	0	1	44	
Manhattanville College (NY)	7	6	0	0	0	0	0	42	
SUNY-College at Buffalo	5	5	5	0	0	1	2	46	
Otterbein College (OH)	10	1	1	0	0	0	1	42	
Lake Forest College (IL)	5	4	0	0	0	0	0	35	
Monmouth College (IL)	2	2	0	0	0	0	0	28	
Winona State University (MN)	7	1	0	0	0	0	0	42	
St. Mary's College of Maryland	3	3	0	0	0	0	0	27	
Western Carolina University (NC)	3	1	2	1	0	0	0	68	
Northwestern State University (LA)	5	4	0	0	0	0	0	48	
Scripps College (CA)	11	5	0	0	0	0	0	43	
Pepperdine University (CA)	8	3	2	1	0	0	1	49	
York College-City University of NY	6	2	0	0	0	0	0	25	
Wagner College (NY)	6	2	0	0	0	0	0	46	
Ramapo College of New Jersey	8	1	0	0	0	0	0	32	
Mansfield University of Pennsylvania	4	3	1	0	0	1	0	56	
Illinois Benedictine College	0	0	0	0	0	0	0	29	
University of Maryland-Baltimore	4	2	0	0	0	0	0	41	
University of North Carolina-Asheville	3	4	0	0	0	0	0	29	
University of Tampa (FL)	3	6	0	0	0	0	0	31	
Austin Peay State University (TN)	1	3	2	0	0	0	2	45	
University of Houston-Clear Lake	9	2	0	0	0	0	0	29	
Texas A&M University-Kingsville	4	3	2	0	0	0	1	49	
University of Texas-Pan American									
University-Edinburg	7	1	2	0	0	0	2	47	
University of Portland (OR)	2	3	3	0	0	0	3	30	
Azusa Pacific University (CA)	12	1	0	0	0	0	0	25	
Biola University (CA)	14	0	0	0	0	0	0	50	
Pacific Union College (CA)	10	1	0	0	0	0	0	36	
Assumption College (MA)	6	4	0	0	0	0	0	33	
Eastern Nazarene College (MA)	0	1	1	0	0	1	0	36	
Simmons College (MA)	2	4	0	0	0	0	0	56	
U.S. Coast Guard Academy (CT)	1	4	5	0	1	2	1	21	
Western Connecticut State University	2	4	1	0	0	0	1	29	
Nazareth College of Rochester (NY)	9	2	0	0	0	0	0	35	
Wells College (NY)	3	4	1	0	0	0	1	31	
Susquehanna University (PA)	4	3	0	0	0	0	0	35	
Capital University (OH)	5	2	2	1	0	0	1	59	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	
		Total	chemistry	Physics & astronomy	Other physical sciences				
Indiana University-South Bend	16	2	1	1	0	0	2	0	3
Indiana University/Purdue University-Indianapolis	16	1	1	0	0	2	0	0	2
College of St. Catherine (MN)	16	3	3	0	0	0	0	0	4
Southwest State University (MN)	16	9	6	3	0	1	1	0	1
Loras College (IA)	16	4	0	4	0	0	0	1	3
Missouri Western State College	16	8	8	0	0	0	1	0	3
Shepherd College (WV)	16	4	4	0	0	0	0	0	6
Augusta College (GA)	16	6	4	2	0	0	0	0	3
Florida A&M University	16	2	1	1	0	0	0	1	4
Rollins College (FL)	16	3	2	1	0	2	1	0	3
Cameron University (OK)	16	5	5	0	0	0	2	1	6
St. Mary's University (TX)	16	3	3	0	0	0	1	0	4
Eastern New Mexico University	16	0	0	0	0	0	2	0	4
Linfield College (OR)	16	6	6	0	0	1	1	0	4
California State University-Bakersfield	16	1	1	0	0	0	0	0	4
Bridgewater State College (MA)	15	1	1	0	0	1	0	1	2
Framingham State College (MA)	15	3	3	0	0	0	0	1	6
North Adams State College (MA)	15	5	2	3	0	1	2	0	4
Merrimack College (MA)	15	4	4	0	0	0	0	0	4
Suffolk University (MA)	15	2	1	1	0	0	0	1	5
Bernard Baruch College-CUNY	15	0	0	0	0	0	0	1	4
New York Institute Of Technology	15	1	0	1	0	1	2	0	2
California University of Pennsylvania	15	2	2	0	0	0	0	1	6
Chatham College (PA).	15	3	3	0	0	0	0	0	7
Chestnut Hill College (PA)	15	3	3	0	0	0	0	0	5
Lock Haven University (PA)	15	1	1	0	0	0	0	1	6
University of Pittsburgh-Johnstown	15	4	4	0	0	0	0	0	5
Cedarville College (OH)	15	5	5	0	0	1	1	0	1
Lake Superior State University (MI)	15	0	0	0	0	3	0	1	3
Northland College (WI)	15	3	3	0	0	2	0	0	7
Washington College (MD)	15	2	2	0	0	1	0	1	4
West Virginia Wesleyan College	15	4	3	1	0	0	1	0	3
Bellarmine College (KY)	15	2	2	0	0	1	0	2	5
Christian Brothers University (TN)	15	2	2	0	0	0	1	0	3
Southwestern University (TX)	15	2	2	0	0	0	0	2	3
Carroll College (MT)	15	0	0	0	0	0	1	0	5
Western State College of Colorado	15	2	1	1	0	4	0	0	5
University of California-San Francisco	15	0	0	0	0	0	1	1	1
Widener University (PA)	14	2	2	0	0	0	0	2	2
St. Joseph's College (IN)	14	1	1	0	0	1	0	0	4
Berry College (GA)	14	4	4	0	0	1	0	1	4
Clark Atlanta University (GA)	14	0	0	0	0	0	0	0	3
West Georgia College	14	2	2	0	0	2	0	0	0
Barry University (FL)	14	1	1	0	0	0	1	0	4
Samford University (AL)	14	1	1	0	0	0	2	0	5
Troy State University (AL)	14	2	2	0	0	0	2	2	1
Louisiana State University-Shreveport	14	3	1	2	0	0	0	0	4

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
Indiana University-South Bend	5	4	0	0	0	0	0	0	
Indiana University/Purdue University-Indianapolis	3	5	3	0	2	1	0	0	
College of St. Catherine (MN)	1	7	1	0	0	0	0	1	
Southwest State University (MN)	2	2	0	0	0	0	0	0	
Loras College (IA)	5	2	1	0	0	0	0	1	
Missouri Western State College	1	3	0	0	0	0	0	0	
Shepherd College (WV)	3	3	0	0	0	0	0	0	
Augusta College (GA)	5	2	0	0	0	0	0	0	
Florida A&M University	2	5	2	0	0	0	0	2	
Rollins College (FL)	5	2	0	0	0	0	0	0	
Cameron University (OK)	1	0	1	0	0	1	0	0	
St. Mary's University (TX)	5	3	0	0	0	0	0	0	
Eastern New Mexico University	5	3	2	0	0	0	0	2	
Linfield College (OR)	3	1	0	0	0	0	0	0	
California State University-Bakersfield	7	3	1	0	0	0	1	0	
Bridgewater State College (MA)	5	5	0	0	0	0	0	0	
Framingham State College (MA)	3	2	0	0	0	0	0	0	
North Adams State College (MA)	1	2	0	0	0	0	0	0	
Merrimack College (MA)	4	3	0	0	0	0	0	0	
Suffolk University (MA)	4	3	0	0	0	0	0	0	
Bernard Baruch College-CUNY	6	3	1	0	0	1	0	0	
New York Institute Of Technology	4	0	5	0	1	1	2	1	
California University of Pennsylvania	3	2	1	0	0	0	0	1	
Chatham College (PA).	4	1	0	0	0	0	0	0	
Chestnut Hill College (PA)	7	0	0	0	0	0	0	0	
Lock Haven University (PA)	5	2	0	0	0	0	0	0	
University of Pittsburgh-Johnstown	3	2	1	0	0	0	1	0	
Cedarville College (OH)	5	2	0	0	0	0	0	0	
Lake Superior State University (MI)	4	4	0	0	0	0	0	0	
Northland College (WI)	0	2	1	0	0	0	0	1	
Washington College (MD)	3	4	0	0	0	0	0	0	
West Virginia Wesleyan College	5	2	0	0	0	0	0	0	
Bellarmine College (KY)	1	4	0	0	0	0	0	0	
Christian Brothers University (TN)	4	2	3	0	0	2	1	0	
Southwestern University (TX)	7	1	0	0	0	0	0	0	
Carroll College (MT)	4	3	2	0	0	0	1	1	
Western State College of Colorado	3	1	0	0	0	0	0	0	
University of California-San Francisco	6	5	1	0	0	1	0	0	
Widener University (PA)	2	2	4	1	1	0	0	2	
St. Joseph's College (IN)	6	2	0	0	0	0	0	0	
Berry College (GA)	1	2	1	0	0	0	0	1	
Clark Atlanta University (GA)	6	5	0	0	0	0	0	0	
West Georgia College	5	5	0	0	0	0	0	0	
Barry University (FL)	3	3	2	0	0	1	1	0	
Samford University (AL)	5	1	0	0	0	0	0	0	
Troy State University (AL)	4	1	2	0	0	0	0	2	
Louisiana State University-Shreveport	6	0	1	0	0	0	0	1	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							Total	
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences		
		Total	chemistry	Physics & astronomy	Other physical sciences					
McNeese State University (LA)	14	5	5	0	0	0	0	1	2	
Tulane University-Newcomb College (LA)	14	0	0	0	0	4	0	0	3	
Sul Ross State University (TX)	14	1	1	0	0	3	0	0	9	
Prairie View A&M University (TX)	14	5	5	0	0	0	0	0	7	
University of Texas-Tyler	14	6	6	0	0	0	0	1	4	
American International College (MA)	13	2	2	0	0	0	2	0	5	
Iona College (NY)	13	0	0	0	0	1	1	0	3	
University of State of New York-Regents	13	0	0	0	0	1	1	1	0	
Eastern College (PA)	13	1	1	0	0	0	0	1	3	
Heidelberg College (OH)	13	2	2	0	0	0	0	4	4	
Mount Union College (OH)	13	3	3	0	0	1	0	0	5	
Principia College (IL)	13	3	3	0	0	1	0	2	2	
Sangamon State University (IL)	13	1	1	0	0	0	0	1	2	
Hillsdale College (MI)	13	4	2	2	0	0	1	0	2	
Carthage College (WI)	13	7	7	0	0	0	0	0	2	
Rockhurst College (MO)	13	2	2	0	0	0	0	0	3	
Westminster College (MO)	13	0	0	0	0	1	0	0	6	
Minot State University (ND)	13	2	2	0	0	1	1	0	3	
Benedictine College (KS)	13	2	2	0	0	1	0	0	4	
Columbia Union College (MD)	13	2	2	0	0	0	0	0	2	
Hood College (MD)	13	0	0	0	0	0	0	0	7	
Mount Saint Mary's College (MD)	13	2	2	0	0	0	2	0	2	
Lynchburg College (VA)	13	1	1	0	0	1	0	0	1	
West Virginia Institute of Technology	13	1	0	1	0	1	0	1	1	
St. Andrews Presbyterian College (NC)	13	3	3	0	0	0	0	1	5	
Presbyterian College (SC)	13	4	4	0	0	0	0	0	5	
Columbus College (GA)	13	1	1	0	0	0	1	0	6	
Asbury College (KY)	13	0	0	0	0	0	2	1	3	
Georgetown College (KY)	13	2	2	0	0	0	1	0	7	
Morehead State University (KY)	13	0	0	0	0	1	1	0	3	
Southern College of the Seventh Day Adventists (TN)	13	4	0	4	0	0	2	0	5	
Tougaloo College (MS)	13	1	1	0	0	0	0	0	3	
Xavier University of Louisiana	13	0	0	0	0	0	0	0	8	
Texas Southern University	13	3	3	0	0	0	0	0	4	
Northwest Nazarene College (ID)	13	5	2	3	0	0	1	1	3	
University of Colorado-Colorado Springs	13	4	3	1	0	0	1	0	3	
California State University-known branch	13	1	0	1	0	1	0	1	3	
Goddard College (VT)	12	0	0	0	0	0	0	1	1	
Eastern Connecticut State University	12	0	0	0	0	0	0	0	5	
Quinnipiac College (CT)	12	1	1	0	0	0	0	0	6	
Geneva College (PA)	12	1	1	0	0	0	1	0	3	
Messiah College (PA)	12	2	2	0	0	0	1	1	3	
Philadelphia College of Textiles & Science (PA)	12	5	5	0	0	0	0	0	4	
Ashland University (OH)	12	1	1	0	0	1	3	0	2	
Wilmington College (OH)	12	1	1	0	0	0	0	0	5	
Adrian College (MI)	12	2	2	0	0	0	0	0	3	
Lawrence Tech University (MI)	12	6	6	0	0	0	0	2	0	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
McNeese State University (LA)	5	0	1	1	0	0	0	0	44	
Tulane University-Newcomb College (LA)	5	2	0	0	0	0	0	0	33	
Sul Ross State University (TX)	0	1	0	0	0	0	0	0	27	
Prairie View A&M University (TX)	0	1	1	0	0	1	0	0	32	
University of Texas-Tyler	2	1	0	0	0	0	0	0	23	
American International College (MA)	3	1	0	0	0	0	0	0	28	
Iona College (NY)	4	4	0	0	0	0	0	0	41	
University of State of New York-Regents	5	2	3	0	0	0	0	3	52	
Eastern College (PA)	7	1	0	0	0	0	0	0	21	
Heidelberg College (OH)	1	1	1	0	0	0	0	1	30	
Mount Union College (OH)	2	2	0	0	0	0	0	0	25	
Principia College (IL)	0	5	0	0	0	0	0	0	24	
Sangamon State University (IL)	3	6	0	0	0	0	0	0	22	
Hillsdale College (MI)	0	4	2	0	0	1	0	1	20	
Carthage College (WI)	1	2	1	0	0	0	1	0	29	
Rockhurst College (MO)	5	3	0	0	0	0	0	0	20	
Westminster College (MO)	5	1	0	0	0	0	0	0	22	
Minot State University (ND)	4	2	0	0	0	0	0	0	35	
Benedictine College (KS)	4	2	0	0	0	0	0	0	29	
Columbia Union College (MD)	6	3	0	0	0	0	0	0	33	
Hood College (MD)	4	2	0	0	0	0	0	0	29	
Mount Saint Mary's College (MD)	4	3	0	0	0	0	0	0	17	
Lynchburg College (VA)	7	3	0	0	0	0	0	0	27	
West Virginia Institute of Technology	0	0	9	3	2	2	0	2	22	
St. Andrews Presbyterian College (NC)	3	1	0	0	0	0	0	0	32	
Presbyterian College (SC)	4	0	0	0	0	0	0	0	26	
Columbus College (GA)	4	1	0	0	0	0	0	0	36	
Asbury College (KY)	5	2	0	0	0	0	0	0	54	
Georgetown College (KY)	2	1	0	0	0	0	0	0	32	
Morehead State University (KY)	6	2	0	0	0	0	0	0	58	
Southern College of the Seventh Day Adventists (TN)	1	1	0	0	0	0	0	0	37	
Tougaloo College (MS)	6	3	0	0	0	0	0	0	29	
Xavier University of Louisiana	4	0	1	0	0	1	0	0	28	
Texas Southern University	0	5	1	0	0	1	0	0	58	
Northwest Nazarene College (ID)	2	0	1	0	0	0	0	1	30	
University of Colorado-Colorado Springs	3	2	0	0	0	0	0	0	24	
California State University-unknown branch	2	2	3	0	1	2	0	0	23	
Goddard College (VT)	8	2	0	0	0	0	0	0	33	
Eastern Connecticut State University	3	4	0	0	0	0	0	0	19	
Quinnipiac College (CT)	5	0	0	0	0	0	0	0	24	
Geneva College (PA)	5	1	1	0	0	1	0	0	30	
Messiah College (PA)	1	3	1	0	0	0	1	0	32	
Philadelphia College of Textiles & Science (PA)	1	0	2	0	0	1	0	1	13	
Ashland University (OH)	4	1	0	0	0	0	0	0	27	
Wilmington College (OH)	2	4	0	0	0	0	0	0	19	
Adrian College (MI)	2	4	1	0	0	0	0	1	21	
Lawrence Tech University (MI)	0	2	2	0	0	1	0	1	14	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate						
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences
		Total	chemistry	Physics & astronomy	Other physical sciences			
Alverno College (WI)	12	1	1	0	0	0	0	0
Milwaukee School of Engineering (WI)	12	0	0	0	0	0	0	0
Dordt College (IA)	12	1	1	0	0	0	1	0
St. Ambrose University (IA)	12	2	2	0	0	0	0	0
Park College (MO)	12	2	2	0	0	0	0	1
William Jewell College (MO)	12	3	0	3	0	1	0	0
Baker University (KS)	12	4	3	1	0	0	0	1
Delaware State University	12	4	3	1	0	1	0	0
Salisbury State University (MD)	12	4	4	0	0	0	1	1
Emory and Henry College (VA)	12	1	1	0	0	0	0	0
Fairmont State College (WV)	12	2	1	1	0	0	2	0
Kennesaw State College (GA)	12	1	1	0	0	0	0	0
David Lipscomb University (TN)	12	3	3	0	0	0	1	0
Maryville College (TN)	12	2	2	0	0	0	0	1
University of North Alabama	12	4	4	0	0	0	1	1
Hardin-Simmons University (TX)	12	5	4	1	0	0	0	0
Texas A&M University-Corpus Christi	12	3	3	0	0	0	0	0
Rocky Mountain College (MT)	12	0	0	0	0	0	1	1
Claremont McKenna College (CA)	12	1	1	0	0	1	1	0
Antioch College West (CA)	12	0	0	0	0	0	0	1
University of New Hampshire-Keene State College	11	3	3	0	0	0	0	1
Marlboro College (VT)	11	2	0	2	0	0	0	0
Norwich University (VT)	11	1	1	0	0	0	1	1
Salem State College (MA)	11	0	0	0	0	3	0	0
John Jay College of Criminal Justice-CUNY	11	0	0	0	0	0	0	0
Marist College (NY)	11	2	2	0	0	0	1	0
SUNY-College at Old Westbury	11	3	3	0	0	0	0	1
Cedar Crest College (PA)	11	0	0	0	0	0	0	1
Lycoming College (PA)	11	3	0	3	0	0	0	1
Thiel College (PA)	11	4	3	1	0	0	0	2
Blackburn College (IL)	11	0	0	0	0	0	1	0
Chicago State University (IL)	11	1	1	0	0	0	0	0
Millikin University (IL)	11	3	3	0	0	0	0	1
Quincy University (IL)	11	0	0	0	0	0	0	2
University of Wisconsin-Superior	11	2	2	0	0	0	0	0
Graceland College (IA)	11	1	1	0	0	0	0	0
Maharishi International University (IA)	11	2	0	2	0	0	0	0
Drury College (MO)	11	1	1	0	0	0	0	0
University of Maryland-unknown branch	11	0	0	0	0	0	0	0
Morgan State University (MD)	11	0	0	0	0	0	0	0
Hampden-Sydney College (VA)	11	6	5	1	0	0	1	0
Delta State University (MS)	11	2	2	0	0	0	0	1
Henderson State University (AR)	11	1	1	0	0	0	1	1
Oklahoma Christian University of Science & Art	11	1	1	0	0	0	0	0
Houston Baptist University (TX)	11	0	0	0	0	0	0	0
New Mexico Highlands University	11	1	1	0	0	0	1	0

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
Alverno College (WI)	5	4	1	1	0	0	0	0	26	
Milwaukee School of Engineering (WI)	0	0	12	0	0	7	2	3	13	
Dordt College (IA)	0	3	4	0	0	1	3	0	20	
St. Ambrose University (IA)	6	2	0	0	0	0	0	0	27	
Park College (MO)	3	5	0	0	0	0	0	0	35	
William Jewell College (MO)	6	0	0	0	0	0	0	0	48	
Baker University (KS)	4	2	0	0	0	0	0	0	27	
Delaware State University	2	2	1	0	0	1	0	0	29	
Salisbury State University (MD)	2	1	0	0	0	0	0	0	29	
Emory and Henry College (VA)	3	7	1	0	0	0	0	1	31	
Fairmont State College (WV)	4	1	0	0	0	0	0	0	31	
Kennesaw State College (GA)	6	2	0	0	0	0	0	0	15	
David Lipscomb University (TN)	3	0	1	0	0	0	0	1	58	
Maryville College (TN)	3	3	0	0	0	0	0	0	18	
University of North Alabama	1	3	0	0	0	0	0	0	55	
Hardin-Simmons University (TX)	3	1	0	0	0	0	0	0	56	
Texas A&M University-Corpus Christi	4	0	0	0	0	0	0	0	22	
Rocky Mountain College (MT)	2	4	2	1	0	0	0	1	17	
Claremont McKenna College (CA)	1	6	1	0	0	0	0	1	30	
Antioch College West (CA)	10	1	0	0	0	0	0	0	15	
University of New Hampshire-Keene State College	2	4	0	0	0	0	0	0	24	
Marlboro College (VT)	3	1	0	0	0	0	0	0	12	
Norwich University (VT)	2	0	4	0	1	1	1	1	12	
Salem State College (MA)	3	2	0	0	0	0	0	0	34	
John Jay College of Criminal Justice-CUNY	3	8	0	0	0	0	0	0	14	
Marist College (NY)	5	2	1	0	1	0	0	0	27	
SUNY-College at Old Westbury	3	4	0	0	0	0	0	0	17	
Cedar Crest College (PA)	3	0	0	0	0	0	0	0	23	
Lycoming College (PA)	3	2	1	0	0	0	0	1	30	
Thiel College (PA)	1	2	1	1	0	0	0	0	26	
Blackburn College (IL)	3	3	0	0	0	0	0	0	16	
Chicago State University (IL)	4	2	0	0	0	0	0	0	78	
Millikin University (IL)	0	2	0	0	0	0	0	0	24	
Quincy University (IL)	6	3	0	0	0	0	0	0	28	
University of Wisconsin-Superior	2	1	3	0	0	0	1	2	30	
Graceland College (IA)	2	4	0	0	0	0	0	0	25	
Maharishi International University (IA)	6	0	0	0	0	0	0	0	14	
Drury College (MO)	6	1	0	0	0	0	0	0	33	
University of Maryland-unknown branch	3	6	0	0	0	0	0	0	15	
Morgan State University (MD)	4	5	0	0	0	0	0	0	51	
Hampden-Sydney College (VA)	1	0	0	0	0	0	0	0	14	
Delta State University (MS)	3	0	0	0	0	0	0	0	63	
Henderson State University (AR)	3	1	3	0	0	1	0	2	39	
Oklahoma Christian University of Science & Art	5	0	2	1	0	1	0	0	33	
Houston Baptist University (TX)	6	1	0	0	0	0	0	0	37	
New Mexico Highlands University	4	2	0	0	0	0	0	0	30	

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

—Continued

Baccalaureate-origin institution	Total S&E	Field of doctorate							
		Physical sciences				Earth atmospheric, & oceanographic	Mathematics	Computer sciences	
		Total	chemistry	Physics & astronomy	Other physical sciences				
University of La Verne (CA)	11	0	0	0	0	0	1	0	2
Fitchburg State College (MA)	10	1	1	0	0	0	0	0	4
Western New England College (MA)	10	2	2	0	0	0	0	0	1
The King's College (NY)	10	2	2	0	0	1	1	0	2
Long Island University-Brooklyn Campus	10	2	2	0	0	0	1	0	3
Long Island University-unknown branch	10	2	1	0	1	0	0	0	2
College of Saint Rose (NY)	10	2	2	0	0	0	0	0	2
Syracuse University-Utica College (NY)	10	1	1	0	0	2	0	0	2
Marywood College (PA)	10	0	0	0	0	0	0	0	5
Rockford College (IL)	10	3	3	0	0	0	2	0	3
Evangel College (MO)	10	4	4	0	0	0	1	1	0
Concordia Teachers College (NE)	10	1	0	1	0	0	1	1	2
Tabor College (KS)	10	2	2	0	0	0	1	0	4
Francis Marion University (SC)	10	2	1	1	0	0	0	0	4
Georgia College	10	2	1	1	0	0	0	0	4
Lee College (TN)	10	1	0	1	0	0	1	1	3
University of Montevallo (AL)	10	1	1	0	0	0	0	0	2
Oklahoma Baptist University	10	1	1	0	0	0	1	0	3
Oklahoma City University	10	0	0	0	0	0	0	0	2
St. Edward's University (TX)	10	3	3	0	0	0	0	2	1
Montana Tech of University of Montana	10	1	1	0	0	1	1	0	0
Regis University-Denver (CO)	10	0	0	0	0	0	1	0	2
St. John's College (NM)	10	0	0	0	0	0	1	1	2
Southern California College	10	0	0	0	0	0	0	0	2

**Table 18. Baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
University of La Verne (CA)	7	1	0	0	0	0	0	29	
Fitchburg State College (MA)	3	2	0	0	0	0	0	39	
Western New England College (MA)	2	0	5	0	0	2	1	15	
The King's College (NY)	2	1	1	0	0	0	0	22	
Long Island University-Brooklyn Campus	2	2	0	0	0	0	0	34	
Long Island University-unknown branch	3	3	0	0	0	0	0	18	
College of Saint Rose (NY)	1	5	0	0	0	0	0	22	
Syracuse University-Utica College (NY)	3	1	1	0	0	1	0	19	
Marywood College (PA)	4	1	0	0	0	0	0	35	
Rockford College (IL)	0	2	0	0	0	0	0	19	
Evangel College (MO)	2	2	0	0	0	0	0	31	
Concordia Teachers College (NE)	3	2	0	0	0	0	0	46	
Tabor College (KS)	2	0	1	0	1	0	0	15	
Francis Marion University (SC)	0	3	1	0	0	0	1	22	
Georgia College	1	3	0	0	0	0	0	26	
Lee College (TN)	2	2	0	0	0	0	0	37	
University of Montevallo (AL)	2	5	0	0	0	0	0	45	
Oklahoma Baptist University	4	1	0	0	0	0	0	93	
Oklahoma City University	4	4	0	0	0	0	0	30	
St. Edward's University (TX)	1	3	0	0	0	0	0	22	
Montana Tech of University of Montana	0	0	7	3	1	1	0	12	
Regis University-Denver (CO)	4	3	0	0	0	0	0	18	
St. John's College (NM)	2	3	0	0	0	0	0	16	
Southern California College	6	2	0	0	0	0	0	22	

<sup>1</sup> Includes non-S&E fields

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Field of doctorate								
		Physical sciences			Earth atmospheric & oceanographic	Mathematics	Computer sciences	Biological & agricultural sciences		
		Total	Physics & astronomy	Other physical sciences				Total	Biological sciences	Agricultural sciences
University of Alberta (Canada)	21	1	0	0	0	0	3	8	6	2
University of British Columbia (Canada)	27	2	1	0	1	4	0	7	5	2
McGill University (Canada)	53	10	4	0	1	3	2	12	12	0
University of Montreal (Canada)	12	4	3	0	0	0	0	4	4	0
Queens University at Kingston (Canada)	14	3	3	0	0	0	1	3	2	1
University of Toronto (Canada)	44	8	3	1	1	2	2	7	7	0
University of Waterloo (Canada)	21	4	1	0	1	4	1	4	4	0
University of Costa Rica	26	9	0	0	1	0	2	6	2	4
National Autonomous University of Mexico	48	5	3	0	4	8	0	15	10	5
Institute of Technology and Higher Education of Monterrey (Mexico)	21	4	1	0	0	0	0	6	2	4
University of Buenos Aires (Argentina)	25	4	4	0	0	1	0	9	2	7
University of Brasilia (Brazil)	15	2	0	0	2	0	1	4	2	2
Federal University of Rio De Janeiro (Brazil)	14	0	0	0	2	1	1	1	1	0
University of Sao Paulo (Brazil)	29	10	8	0	4	1	0	7	5	2
State University of Campinas (Brazil)	10	3	3	0	0	1	0	0	0	0
University of Chile (Chile)	17	0	0	0	0	4	0	4	3	1
National University of Colombia (Colombia)	14	1	0	0	4	3	0	3	1	2
Central University of Venezuela (Venezuela)	11	1	0	0	1	1	0	7	5	2
University of Simon Bolivar (Venezuela)	13	1	0	0	0	0	3	2	0	2
Dublin, University College (Republic of Ireland)	17	2	1	0	1	2	0	1	1	0
University of Cambridge (England)	21	5	4	0	1	1	1	5	5	0
University of London (England)	14	2	2	0	1	0	0	4	3	1
University of Oxford (England)	14	2	1	0	0	3	0	4	4	0
National Technical University of Athens (Greece)	45	3	2	0	2	2	8	2	1	1
National and Capodistrian University of Athens (Greece)	24	13	8	0	1	3	1	1	1	0
University of Patras (Greece)	28	4	2	0	0	4	4	2	2	0
Aristotelian University of Thessalonika (Greece)	52	7	5	0	1	3	4	9	6	3
Eotvos Lorand University (Hungary)	12	4	3	0	1	4	2	0	0	0
University of Barcelona (Spain)	14	3	3	0	2	1	0	4	3	1
University of Zagreb (Croatia)	13	3	2	0	0	3	1	1	1	0
University of Belgrade (Serbia)	38	5	4	0	0	4	5	7	5	2
Xiamen University (China)	29	15	2	0	1	4	0	6	5	1
Jilin University (China)	50	18	6	0	2	7	2	8	8	0
Shandong Teachers University (China)	14	6	2	0	0	2	0	3	3	0
Zhejiang University (China)	81	11	8	0	5	8	1	8	5	3
Shanghai Jiaotong University (China)	56	7	5	0	0	1	2	0	0	0
Fudan University (China)	173	67	37	0	0	17	8	54	53	1
Hangzhou University (China)	23	6	1	0	1	0	0	10	10	0
Harbin Institute of Technology (China)	19	2	0	0	0	3	2	0	0	0
Lanzhou University (China)	32	17	7	0	6	1	1	5	5	0
Nankai University (China)	64	29	13	0	0	7	0	19	19	0
Nanjing University (China)	86	26	14	0	12	5	4	25	22	3
Northwest University (China)	15	0	0	0	3	1	0	4	4	0
Beijing University (China)	284	113	59	1	26	20	4	64	63	1
Beijing Normal University (China)	43	21	12	0	1	4	0	13	11	2

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**— Continued**

Baccalaureate-origin institution	Field of doctorate								Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering							
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering		
University of Alberta (Canada)	2	4	3	1	0	2	0	0	40	
University of British Columbia (Canada)	1	6	6	0	1	3	0	2	45	
McGill University (Canada)	5	12	8	1	0	5	0	2	81	
University of Montreal (Canada)	2	2	0	0	0	0	0	0	16	
Queens University at Kingston (Canada)	1	6	0	0	0	0	0	0	24	
University of Toronto (Canada)	9	8	6	2	0	0	1	3	75	
University of Waterloo (Canada)	3	2	2	0	0	2	0	0	24	
University of Costa Rica	0	4	4	1	1	1	0	1	33	
National Autonomous University of Mexico	2	8	6	1	2	1	0	2	56	
Institute of Technology and Higher Education of Monterrey (Mexico)	0	3	8	1	2	0	1	4	21	
University of Buenos Aires (Argentina)	0	9	2	0	0	0	2	0	29	
University of Brasilia (Brazil)	1	0	5	1	1	2	1	0	16	
Federal University of Rio De Janeiro (Brazil)	0	3	6	0	1	0	5	0	18	
University of Sao Paulo (Brazil)	0	4	3	1	1	0	0	1	34	
State University of Campinas (Brazil)	0	0	6	2	0	3	0	1	11	
University of Chile (Chile)	0	7	2	0	1	0	0	1	21	
National University of Colombia (Colombia)	0	0	3	0	2	0	0	1	14	
Central University of Venezuela (Venezuela)	0	0	1	0	0	0	1	0	12	
University of Simon Bolivar (Venezuela)	0	0	7	2	0	2	0	3	13	
Dublin, University College (Republic of Ireland)	1	3	7	4	0	2	0	1	18	
University of Cambridge (England)	0	7	1	0	0	0	0	1	35	
University of London (England)	0	5	2	0	0	0	0	2	24	
University of Oxford (England)	0	5	0	0	0	0	0	0	27	
National Technical University of Athens (Greece)	0	1	27	11	3	7	1	5	49	
National and Capodistrian University of Athens (Greece)	0	4	1	0	0	0	0	1	29	
University of Patras (Greece)	0	0	14	2	2	4	1	5	28	
Aristotelian University of Thessalonika (Greece)	1	4	23	9	4	4	2	4	55	
Eotvos Lorand University (Hungary)	0	1	0	0	0	0	0	0	13	
University of Barcelona (Spain)	0	2	2	0	0	1	1	0	21	
University of Zagreb (Croatia)	2	0	3	0	0	2	0	1	14	
University of Belgrade (Serbia)	0	0	17	0	3	10	1	3	43	
Xiamen University (China)	0	2	1	0	0	1	0	0	31	
Jilin University (China)	0	3	10	0	0	3	3	4	54	
Shandong Teachers University (China)	0	2	1	0	0	0	1	0	16	
Zhejiang University (China)	0	1	47	10	2	11	9	15	81	
Shanghai Jiaotong University (China)	0	4	42	1	2	14	15	10	59	
Fudan University (China)	0	7	20	1	1	11	0	7	178	
Hangzhou University (China)	1	4	1	0	0	0	0	1	25	
Harbin Institute of Technology (China)	0	2	10	0	1	1	6	2	20	
Lanzhou University (China)	0	0	2	0	0	1	1	0	32	
Nankai University (China)	0	2	7	0	0	5	0	2	70	
Nanjing University (China)	2	6	6	1	1	2	0	2	88	
Northwest University (China)	0	2	5	0	0	2	2	1	15	
Beijing University (China)	2	16	38	2	3	13	8	12	300	
Beijing Normal University (China)	0	2	2	0	0	0	0	2	55	

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Total S&E	Field of doctorate								
		Physical sciences			Earth atmospheric & oceanographic	Mathematics	Computer sciences	Biological & agricultural sciences		
		Total	Physics & astronomy	Other physical sciences				Total	Biological sciences	Agricultural sciences
Shanghai University of Science & Technology (China)	31	9	5	0	0	2	4	2	2	0
Shantung University (China)	19	6	1	0	0	4	0	6	5	1
Zhongshan University (China)	58	21	11	0	10	3	3	11	10	1
Sichuan University (China)	38	12	4	0	0	4	2	15	13	2
Tientsin University (China)	11	2	1	0	0	1	0	0	0	0
Tungchi University (China)	10	1	1	0	1	0	0	1	0	1
Wuhan University (China)	76	25	12	0	4	11	2	18	16	2
Beijing University of Aeronautics and Astronautics (China)	33	0	0	0	0	1	3	1	1	0
Shanghai Second Medical University (China)	11	1	0	0	0	0	0	9	9	0
Qinghua University (China)	143	31	21	0	1	6	8	8	8	0
Beijing Medical University (China)	40	5	0	0	0	0	0	34	34	0
East China University of Chemical Technology (China)	34	10	0	0	0	2	0	7	5	2
Nanjing Aeronautical Institute (China)	15	0	0	0	0	1	0	0	0	0
Dalian University of Science and Technology (China)	12	3	2	0	0	1	0	0	0	0
Shanghai Medical University (China)	47	5	0	0	0	0	0	41	41	0
South China Institute of Technology (China)	23	5	0	0	0	1	0	2	2	0
Huazhong University of Science & Technology (China)	33	6	5	0	1	3	0	3	2	1
East China Normal University (China)	46	15	6	1	1	10	1	6	6	0
Beijing Union Medical College (China)	12	0	0	0	0	0	0	11	11	0
Beijing Institute of Technology (China)	15	4	1	0	0	2	0	0	0	0
University of Science & Technology-Hefei (China)	85	31	18	0	6	6	4	10	10	0
Beijing Polytechnical University (China)	17	4	2	0	1	2	0	1	1	0
Nanjing Institute of Technology (China)	23	2	1	0	0	2	0	0	0	0
Xian Jiaotong University (China)	27	1	1	0	0	5	0	0	0	0
Beijing Agricultural University (China)	15	0	0	0	0	0	0	14	10	4
Northeast Normal University (China)	21	5	2	0	2	3	0	3	1	2
University of Science & Technology (Beijing, China)	44	16	10	0	1	1	1	3	3	0
East China Institute of Technology (China)	11	3	1	0	1	2	1	1	1	0
University of Science & Technology-unknown branch (China)	64	31	18	0	2	8	0	9	8	1
National Central University (Taiwan)	36	7	7	0	4	5	0	1	1	0
National Chengchi University (Taiwan)	27	0	0	0	0	6	2	0	0	0
Fu Jen Catholic University (China)	64	9	0	0	0	5	3	24	14	10
Soochow University (Taiwan)	22	4	1	0	0	3	2	4	4	0
Taipei Institute of Technology (Taiwan)	22	0	0	0	0	0	2	0	0	0
National Cheng Kung University (Taiwan)	165	19	8	0	2	1	4	2	2	0
National Chung Hsing University (China)	74	3	0	0	1	4	3	29	18	11
National Taiwan Normal University (Taiwan)	51	15	6	0	0	6	1	11	11	0
National Taiwan University	478	46	22	1	11	12	37	98	81	17
Tamkang University (Taiwan)	67	12	4	0	0	2	6	2	2	0
National Tsing Hua University (Taiwan)	122	25	13	0	0	7	5	4	4	0
Tunghai University (Taiwan)	44	2	0	0	1	1	3	13	12	1
National Chiao Tung University (Taiwan)	102	2	2	0	0	3	15	0	0	0
Taipei Medical College (Taiwan)	19	3	0	0	0	0	0	15	13	2
University of Chinese Culture (Taiwan)	33	3	2	0	5	0	2	12	6	6
Chun Yuan Christian University (Taiwan)	80	11	3	0	1	1	5	2	2	0

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
Shanghai University of Science & Technology (China)	0	0	14	0	0	5	3	6 35	
Shantung University (China)	0	1	2	0	0	1	0	1 21	
Zhongshan University (China)	0	5	5	1	0	0	2	2 59	
Sichuan University (China)	0	1	4	0	0	3	0	1 44	
Tientsin University (China)	0	0	8	0	1	3	1	3 11	
Tungchi University (China)	1	1	5	0	4	0	0	1 10	
Wuhan University (China)	1	10	5	0	0	2	1	2 77	
Beijing University of Aeronautics and Astronautics (China)	0	0	28	1	0	4	12	11 33	
Shanghai Second Medical University (China)	0	0	1	0	0	1	0	0 12	
Qinghua University (China)	0	7	82	4	11	23	27	17 146	
Beijing Medical University (China)	1	0	0	0	0	0	0	0 44	
East China University of Chemical Technology (China)	0	0	15	10	0	0	3	2 35	
Nanjing Aeronautical Institute (China)	0	0	14	0	0	2	7	5 15	
Dalian University of Science and Technology (China)	0	0	8	1	1	1	2	3 12	
Shanghai Medical University (China)	0	0	1	0	0	0	0	1 52	
South China Institute of Technology (China)	0	0	15	8	0	4	1	2 24	
Huazhong University of Science & Technology (China)	1	2	17	0	2	4	6	5 36	
East China Normal University (China)	2	4	6	0	0	2	1	3 56	
Beijing Union Medical College (China)	1	0	0	0	0	0	0	0 12	
Beijing Institute of Technology (China)	0	0	9	0	0	2	5	2 16	
University of Science & Technology-Hefei (China)	0	3	25	1	1	10	5	8 87	
Beijing Polytechnical University (China)	0	0	9	0	2	3	4	0 18	
Nanjing Institute of Technology (China)	0	2	17	1	1	8	4	3 23	
Xian Jiaotong University (China)	0	1	20	1	0	7	6	6 27	
Beijing Agricultural University (China)	0	0	1	0	0	0	0	1 15	
Northeast Normal University (China)	0	4	4	0	1	0	0	3 23	
University of Science & Technology (Beijing, China)	0	1	21	1	0	5	3	12 44	
East China Institute of Technology (China)	0	0	3	0	0	1	2	0 11	
University of Science & Technology-unknown branch (China)	0	2	12	1	0	6	2	3 65	
National Central University (Taiwan)	0	0	19	2	2	4	7	4 41	
National Chengchi University (Taiwan)	3	15	1	0	0	0	0	1 55	
Fu Jen Catholic University (China)	3	11	9	0	1	3	0	5 85	
Soochow University (Taiwan)	0	8	1	0	0	0	0	1 30	
Taipei Institute of Technology (Taiwan)	0	0	20	3	2	8	2	5 24	
National Cheng Kung University (Taiwan)	1	6	130	16	21	26	29	38 171	
National Chung Hsing University (China)	1	14	19	1	10	1	6	1 80	
National Taiwan Normal University (Taiwan)	6	1	11	0	1	6	2	2 103	
National Taiwan University	10	49	214	21	27	68	65	33 571	
Tamkang University (Taiwan)	1	5	39	3	7	10	7	12 82	
National Tsing Hua University (Taiwan)	0	2	79	9	0	23	8	39 125	
Tunghai University (Taiwan)	1	3	20	3	1	2	1	13 59	
National Chiao Tung University (Taiwan)	0	3	79	0	5	58	7	9 105	
Taipei Medical College (Taiwan)	0	1	0	0	0	0	0	0 29	
University of Chinese Culture (Taiwan)	3	3	5	1	0	1	2	1 49	
Chun Yuan Christian University (Taiwan)	1	1	58	5	5	19	15	14 92	

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Total S&E	Field of doctorate								
		Physical sciences			Earth atmospheric & oceanographic	Mathematics	Computer sciences	Biological & agricultural sciences		
		Total	Physics & astronomy	Other physical sciences				Total	Biological sciences	Agricultural sciences
National Taiwan Ocean University (Taiwan)	16	0	0	0	2	0	0	5	2	3
Feng Chia University (Taiwan)	40	1	0	0	0	1	2	0	0	0
National Taiwan Institute of Technology (Taiwan)	16	2	0	0	0	0	0	0	0	0
Tatung Institute of Technology (Taiwan)	23	1	0	0	0	0	3	0	0	0
Chung Cheng Institute of Technology (Taiwan)	15	0	0	0	0	1	1	0	0	0
Chinese University of Hong Kong	31	11	9	0	1	1	2	0	0	0
University of Hong Kong	24	8	5	0	1	4	2	2	2	0
Kyoto University (Japan)	24	6	4	0	0	0	0	2	2	0
University of Tokyo (Japan)	38	1	0	0	0	2	1	3	3	0
Ewha Women's University (Republic of Korea)	29	4	0	0	0	1	1	11	9	2
Inha University (Republic of Korea)	20	2	0	0	0	0	1	1	1	0
Korea University-Seoul	107	21	10	0	0	2	5	25	16	9
Kyungpook National University (Republic of Korea)	45	11	3	0	0	3	3	5	5	0
Pusan National University (Republic of Korea)	32	4	2	0	0	1	1	3	3	0
Seoul National University (Korea)	541	94	42	0	6	13	29	99	86	13
Sogang University (Republic of Korea)	34	13	7	0	0	2	5	0	0	0
Sung Kyun Kwan University (Republic of Korea)	48	5	1	0	0	2	0	4	4	0
Yonsei University (Korea)	150	22	10	0	5	7	4	18	17	1
Kyunghee University (Republic of Korea)	14	5	2	0	0	2	1	2	1	1
Yeung-Nam University (Republic of Korea)	14	0	0	0	0	1	0	2	1	1
Hankuk University of Foreign Studies (Republic of Korea)	25	0	0	0	0	0	0	0	0	0
Hanyang University (Korea)	100	15	4	1	0	0	3	2	2	0
Chonnam National University (Korea)	15	1	1	0	1	1	1	1	0	1
Kon-Kuk University (Republica of Korea)	11	2	1	0	0	0	0	6	2	4
National University of Singapore	29	4	3	0	0	2	4	3	3	0
Chulalongkorn University (Thailand)	41	3	0	0	3	1	4	7	5	2
Kasetsart University (Thailand)	17	0	0	0	0	0	0	12	3	9
University of Colombo (Sri Lanka)	23	14	5	0	0	4	0	4	4	0
University of Peradeniya (Sri Lanka)	34	13	6	0	0	3	0	11	6	5
Banaras Hindu University (India)	25	2	0	0	1	1	4	0	0	0
Bangalore University (India)	31	3	1	0	1	1	3	3	2	1
University of Bombay (India)	152	41	5	0	0	6	4	55	51	4
University of Calcutta (India)	52	9	9	0	1	3	2	8	7	1
University of Delhi (India)	67	17	6	0	0	2	4	11	11	0
Indian Institute of Technology, Bombay	79	3	2	0	3	1	14	1	1	0
Indian Institute of Technology, Delhi	36	0	0	0	0	1	12	0	0	0
Indian Institute of Technology, Kanpur	54	3	1	0	0	0	12	2	2	0
Indian Institute of Technology, Kharagpur	47	1	1	0	0	0	3	1	0	1
Indian Institute of Technology, Madras	71	4	4	0	1	1	17	0	0	0
Jadavpur University (India)	31	4	0	0	1	1	8	3	3	0
University of Kerala (India)	11	3	1	0	0	2	2	0	0	0
University of Madras (India)	57	17	5	0	0	7	6	7	6	1
University of Mysore (India)	12	1	1	0	0	0	1	1	1	0
Osmania University (India)	34	2	1	0	1	0	1	7	7	0
Punjab University (India)	15	1	0	0	3	1	0	3	3	0

See footnote at end of table

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**— Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
National Taiwan Ocean University (Taiwan)	0	0	9	0	3	2	2	2 17	
Feng Chia University (Taiwan)	0	4	32	3	3	9	9	8 40	
National Taiwan Institute of Technology (Taiwan)	0	0	14	2	2	4	4	2 16	
Tatung Institute of Technology (Taiwan)	0	0	19	3	0	6	5	5 24	
Chung Cheng Institute of Technology (Taiwan)	0	0	13	1	2	2	2	6 16	
Chinese University of Hong Kong	5	9	2	0	0	2	0	0 44	
University of Hong Kong	2	2	3	1	0	1	1	0 28	
Kyoto University (Japan)	2	7	7	1	4	1	0	1 26	
University of Tokyo (Japan)	2	18	11	2	2	2	0	5 43	
Ewha Women's University (Republic of Korea)	4	6	2	0	0	2	0	0 66	
Inha University (Republic of Korea)	0	2	14	3	0	2	4	5 20	
Korea University-Seoul	1	27	26	3	2	9	4	8 130	
Kyungpook National University (Republic of Korea)	1	7	15	1	1	10	2	1 48	
Pusan National University (Republic of Korea)	3	4	16	1	1	1	10	3 42	
Seoul National University (Korea)	7	92	201	20	18	57	40	66 638	
Sogang University (Republic of Korea)	0	6	8	0	0	8	0	0 43	
Sung Kyun Kwan University (Republic of Korea)	0	20	17	1	2	2	4	8 59	
Yonsei University (Korea)	2	31	61	10	8	19	4	20 203	
Kyunghee University (Republic of Korea)	0	1	3	0	1	0	0	2 21	
Yeung-Nam University (Republic of Korea)	0	8	3	0	2	0	0	1 17	
Hankuk University of Foreign Studies (Republic of Korea)	0	25	0	0	0	0	0	0 45	
Hanyang University (Korea)	1	7	71	8	11	15	16	21 112	
Chonnam National University (Korea)	0	3	7	4	0	1	0	2 20	
Kon-Kuk University (República de Korea)	0	1	2	0	2	0	0	0 15	
National University of Singapore	0	3	13	0	3	5	0	5 49	
Chulalongkorn University (Thailand)	1	10	12	2	4	1	0	5 66	
Kasetsart University (Thailand)	0	2	3	1	0	1	1	0 21	
University of Colombo (Sri Lanka)	0	1	0	0	0	0	0	0 24	
University of Peradeniya (Sri Lanka)	0	1	6	0	3	1	2	0 38	
Banaras Hindu University (India)	0	1	16	7	0	1	0	8 33	
Bangalore University (India)	1	5	14	0	2	5	4	3 36	
University of Bombay (India)	4	13	29	12	2	7	3	5 191	
University of Calcutta (India)	0	20	9	1	1	2	2	3 64	
University of Delhi (India)	5	23	5	0	0	1	0	4 99	
Indian Institute of Technology, Bombay	0	1	56	8	6	17	13	12 83	
Indian Institute of Technology, Delhi	0	1	22	9	0	5	5	3 41	
Indian Institute of Technology, Kanpur	0	0	37	6	1	10	7	13 60	
Indian Institute of Technology, Kharagpur	0	0	42	5	3	9	16	9 51	
Indian Institute of Technology, Madras	1	0	47	3	5	14	13	12 79	
Jadavpur University (India)	0	0	14	5	2	3	1	3 38	
University of Kerala (India)	0	0	4	0	1	1	2	0 13	
University of Madras (India)	1	8	11	0	1	5	0	5 80	
University of Mysore (India)	0	1	8	1	2	3	0	2 16	
Osmania University (India)	0	3	20	6	3	7	0	4 42	
Punjab University (India)	0	3	4	0	0	2	1	1 20	

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**— Continued**

Baccalaureate-origin institution	Total S&E	Field of doctorate								
		Physical sciences			Earth atmospheric & oceanographic	Mathematics	Computer sciences	Biological & agricultural sciences		
		Total	Physics & astronomy	Other physical sciences				Total	Biological sciences	Agricultural sciences
University of Poona (India)	23	4	0	0	1	2	3	2	2	0
Birla Institute of Technology and Science (India)	28	1	0	0	0	1	5	3	3	0
Regional Engineering College (India)	20	0	0	0	0	0	3	0	0	0
Anna University (India)	21	1	0	0	0	0	3	0	0	0
Tamil Nadu Agricultural University (India)	12	0	0	0	0	0	0	9	5	4
Indian Institute of Technology-unknown branch	92	9	8	0	0	1	16	1	1	0
Pahlavi University (Iran)	13	0	0	0	0	1	0	4	3	1
University of Teheran (Iran)	24	1	0	0	0	2	1	4	2	2
University of Baghdad (Iraq)	14	1	1	0	1	0	0	3	2	1
Hebrew University of Jerusalem (Israel)	40	4	3	0	2	3	8	8	6	2
Technion-Israel Institute of Technology (Israel)	25	0	0	0	2	1	3	0	0	0
Tel Aviv University (Israel)	34	6	6	0	2	0	7	3	2	1
University of Jordan	20	3	2	0	1	0	1	3	1	2
Yarmouk University (Jordan)	26	2	1	0	0	3	6	3	3	0
Kuwait University	20	0	0	0	1	2	1	0	0	0
American University of Beirut (Lebanon)	43	2	0	0	1	2	1	9	8	1
University of Dhaka (Bangladesh)	24	5	1	0	1	0	1	2	1	1
Bangladesh University of Engineering and Technology	17	0	0	0	0	0	0	0	0	0
University of the Punjab (Pakistan)	16	2	2	0	1	0	0	5	5	0
University of Engineering & Technology (Pakistan)	18	0	0	0	0	0	0	0	0	0
Pakistan Agricultural University	36	0	0	0	0	0	0	26	3	23
King Abdul Aziz University (Saudi Arabia)	13	0	0	0	1	0	0	0	0	0
King Fahad University Petroleum & Minerals (Saudi Arabia)	20	1	1	0	0	3	2	0	0	0
King Saud University (Saudi Arabia)	40	1	0	0	1	0	1	9	2	7
University of Damascus (Syria)	16	1	0	0	0	1	1	2	0	2
University of the Bosphorus (Turkey)	38	8	6	0	0	2	1	0	0	0
Hacettepe University (Turkey)	18	2	2	0	0	1	3	4	4	0
Technical University of Istanbul (Turkey)	23	0	0	0	7	0	0	0	0	0
The Middle East Technical University (Turkey)	52	4	3	0	0	5	4	4	3	1
Bandung Technological Institute (Indonesia)	22	0	0	0	0	2	1	1	1	0
Gadjah Mada University (Indonesia)	12	1	0	0	0	0	0	3	1	2
University of the Philippines	55	13	3	0	1	4	0	15	9	6
University of Ghana	20	1	0	1	0	2	0	7	7	0
University of Science & Technology (Ghana)	12	1	0	0	1	0	0	4	3	1
Institut Agronomique et Veterinaire Hassan II (Morocco)	12	0	0	0	0	0	0	10	2	8
Ain Shams University (Egypt)	20	1	0	0	0	0	0	4	3	1
University of Alexandria (Egypt)	28	3	1	0	1	1	4	2	2	0
Cairo University (Egypt)	50	1	0	0	3	0	5	6	4	2
Military Tech College (Egypt)	10	0	0	0	0	0	1	0	0	0
University of Addis Ababa (Ethiopia)	24	2	1	0	2	4	0	6	2	4
University of Khartoum (Sudan)	17	2	0	0	1	0	0	7	6	1
University of Nairobi (Kenya)	23	0	0	0	2	0	0	11	1	10
University of Dar Es Salaam (Tanzania)	11	0	0	0	0	0	0	2	0	2

**Table 19. Foreign baccalaureate-origin institutions of 10 or more 1991-95 science and engineering (S&E) doctorate recipients, by field of doctorate**  
**—Continued**

Baccalaureate-origin institution	Field of doctorate							Total all fields <sup>1</sup>	
	Psychology	Social science	Engineering						
			Total	Chemical	Civil	Electrical	Mechanical		
University of Poona (India)	1	0	10	0	1	3	4	2 27	
Birla Institute of Technology and Science (India)	0	1	17	4	1	7	2	3 39	
Regional Engineering College (India)	0	0	17	0	0	7	4	6 23	
Anna University (India)	0	0	17	4	1	6	2	4 22	
Tamil Nadu Agricultural University (India)	0	2	1	0	0	0	0	1 12	
Indian Institute of Technology-unknown branch	0	2	63	17	5	10	17	14 102	
Pahlavi University (Iran)	0	3	5	0	3	0	1	1 14	
University of Teheran (Iran)	0	1	15	1	2	9	1	2 26	
University of Baghdad (Iraq)	0	3	6	1	1	2	0	2 15	
Hebrew University of Jerusalem (Israel)	3	12	0	0	0	0	0	0 59	
Technion-Israel Institute of Technology (Israel)	1	1	17	1	0	4	4	8 28	
Tel Aviv University (Israel)	9	6	1	0	0	0	0	1 53	
University of Jordan	1	2	9	0	3	3	1	2 24	
Yarmouk University (Jordan)	0	2	10	0	7	2	0	1 34	
Kuwait University	0	3	13	2	3	3	3	2 24	
American University of Beirut (Lebanon)	0	6	22	0	9	7	1	5 56	
University of Dhaka (Bangladesh)	0	13	2	0	0	1	0	1 30	
Bangladesh University of Engineering and Technology	0	1	16	0	5	7	3	1 18	
University of the Punjab (Pakistan)	0	5	3	0	0	1	0	2 17	
University of Engineering & Technology (Pakistan)	0	0	17	2	4	5	2	4 20	
Pakistan Agricultural University	0	7	3	0	0	0	0	3 36	
King Abdul Aziz University (Saudi Arabia)	0	2	10	1	4	1	1	3 20	
King Fahad University Petroleum & Minerals (Saudi Arabia)	0	1	13	3	5	3	0	2 22	
King Saud University (Saudi Arabia)	0	19	9	3	3	2	0	1 58	
University of Damascus (Syria)	0	1	10	0	5	1	3	1 19	
University of the Bosphorus (Turkey)	1	9	17	0	0	9	4	4 46	
Hacettepe University (Turkey)	1	0	7	0	0	2	0	5 20	
Technical University of Istanbul (Turkey)	0	0	16	2	2	6	0	6 23	
The Middle East Technical University (Turkey)	1	9	25	4	3	8	3	7 56	
Bandung Technological Institute (Indonesia)	0	4	14	0	4	3	3	4 23	
Gadjah Mada University (Indonesia)	0	5	3	0	1	0	0	2 15	
University of the Philippines	1	13	8	1	3	1	1	2 68	
University of Ghana	0	9	0	0	0	0	0	0 30	
University of Science & Technology (Ghana)	0	3	3	1	1	0	0	1 18	
Institut Agronomique et Veterinaire Hassan II (Morocco)	0	1	1	0	0	0	0	1 12	
Ain Shams University (Egypt)	1	1	13	0	8	4	0	1 22	
University of Alexandria (Egypt)	0	2	15	1	4	2	2	6 31	
Cairo University (Egypt)	0	3	32	0	20	2	2	8 59	
Military Tech College (Egypt)	0	1	8	0	2	5	0	1 10	
University of Addis Ababa (Ethiopia)	0	4	6	1	1	1	2	1 25	
University of Khartoum (Sudan)	0	6	1	0	0	1	0	0 24	
University of Nairobi (Kenya)	0	8	2	0	1	0	0	1 28	
University of Dar Es Salaam (Tanzania)	0	6	3	0	0	1	0	2 13	

<sup>1</sup> Includes non-S&E fields.

**Table 20. Top 25 foreign baccalaureate-origin institutions of 1994 non-U.S. science and engineering (S&E) doctorate recipients, ranked according to total S&E doctorates, by field of doctorate**

Baccalaureate-origin institution	Total S&E	Total Sciences	Field of science								Total engineering
			Physical sciences <sup>1</sup>	Mathematics	Computer sciences	Biological sciences	Agricultural sciences	Psychology	Social sciences		
Seoul National University (Korea)	434	266	85	9	23	71	9	3	66	168	
National Taiwan University	373	201	42	12	26	67	12	8	34	172	
Beijing University (China)	231	201	119	14	4	49	1	2	12	30	
Fudan University (China)	138	121	53	13	7	41	0	0	7	17	
National Cheng Kung University (Taiwan)	130	28	18	1	2	2	0	0	5	102	
Yonsei University (Korea)	124	80	25	6	4	16	1	1	27	44	
Qinghua University (China)	121	52	28	4	8	7	0	0	5	69	
University of Bombay (India)	118	93	36	5	3	39	2	2	6	25	
National Tsing Hua University (Taiwan)	91	34	19	7	4	4	0	0	0	57	
Korea University-Seoul	88	69	18	1	5	15	9	0	21	19	
Hanyang University (Korea)	86	24	13	0	3	2	0	0	6	62	
National Chiao Tung University (Taiwan)	82	21	2	3	13	0	0	0	3	61	
University of Science & Technology-Hefei (China)	72	52	32	4	4	9	0	0	3	20	
Indian Institute of Technology-unknown branch	72	18	6	0	10	1	0	0	1	54	
Nanjing University (China)	68	63	29	5	4	18	1	0	6	5	
Zhejiang University (China)	65	28	12	6	1	5	3	0	1	37	
Wuhan University (China)	62	58	26	8	1	11	2	1	9	4	
University of Science & Tech-unknown branch (China)	62	50	32	8	0	8	1	0	1	12	
Indian Institute of Technology-Bombay	60	19	4	1	13	1	0	0	0	41	
University of Delhi (India)	59	56	15	2	3	11	0	4	21	3	
Indian Institute of Technology-Madras	59	20	5	1	13	0	0	1	0	39	
Nankai University (China)	58	51	26	7	0	16	0	0	2	7	
Chun Yuan Christian University (Taiwan)	58	16	8	0	5	1	0	1	1	42	
National Chung Hsing University (China)	56	44	3	4	2	16	8	0	11	12	
Tamkang University (Taiwan)	55	26	11	1	6	2	0	1	5	29	
Total, top 25	2,822	1,691	667	122	164	412	49	24	253	1,131	
Total, all foreign institutions	9,177	6,087	1,803	537	422	1,390	483	176	1,276	3,090	
Top 25 as a percent of all institutions	30.8%	27.8%	37.0%	22.7%	38.9%	29.6%	10.1%	13.6%	19.8%	36.6%	

<sup>1</sup> Includes earth, atmospheric, and oceanographic sciences.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**APPENDIX C.**  
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## APPENDIX C. BIBLIOGRAPHY

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